



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: DV Digital Video

Trade Mark: N/A

Test Model: DV Digital Video

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



Contents

	Page
COVER PAGE	
1 Duty Cycle	3
1.1 Test Result.....	3
1.2 Test Graphs	4
2 Maximum Conducted Output Power	9
2.1 Test Result.....	9
3 -6dB Bandwidth	10
3.1 Test Result.....	10
3.2 Test Graphs	11
4 Maximum Power Spectral Density Level	16
4.1 Test Result.....	16
4.2 Test Graphs	17
5 Band Edge.....	22
5.1 Test Result.....	22
5.2 Test Graphs	23
6 Conducted RF Spurious Emission.....	29
6.1 Test Result.....	29
6.2 Test Graphs	30
7 Restrict Band.....	39
7.1 Test Result.....	39
7.2 Test Graphs	41



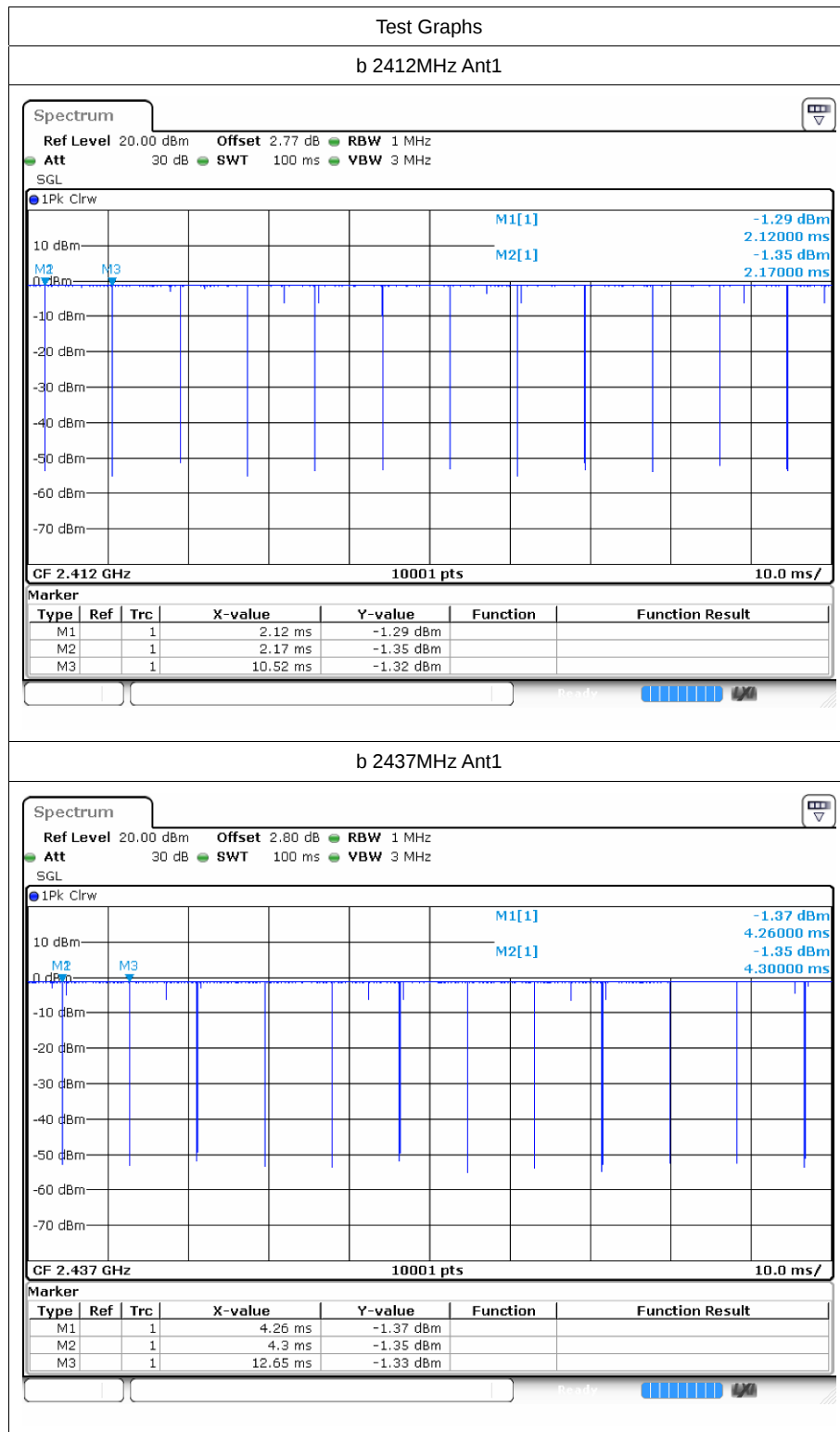
1 Duty Cycle

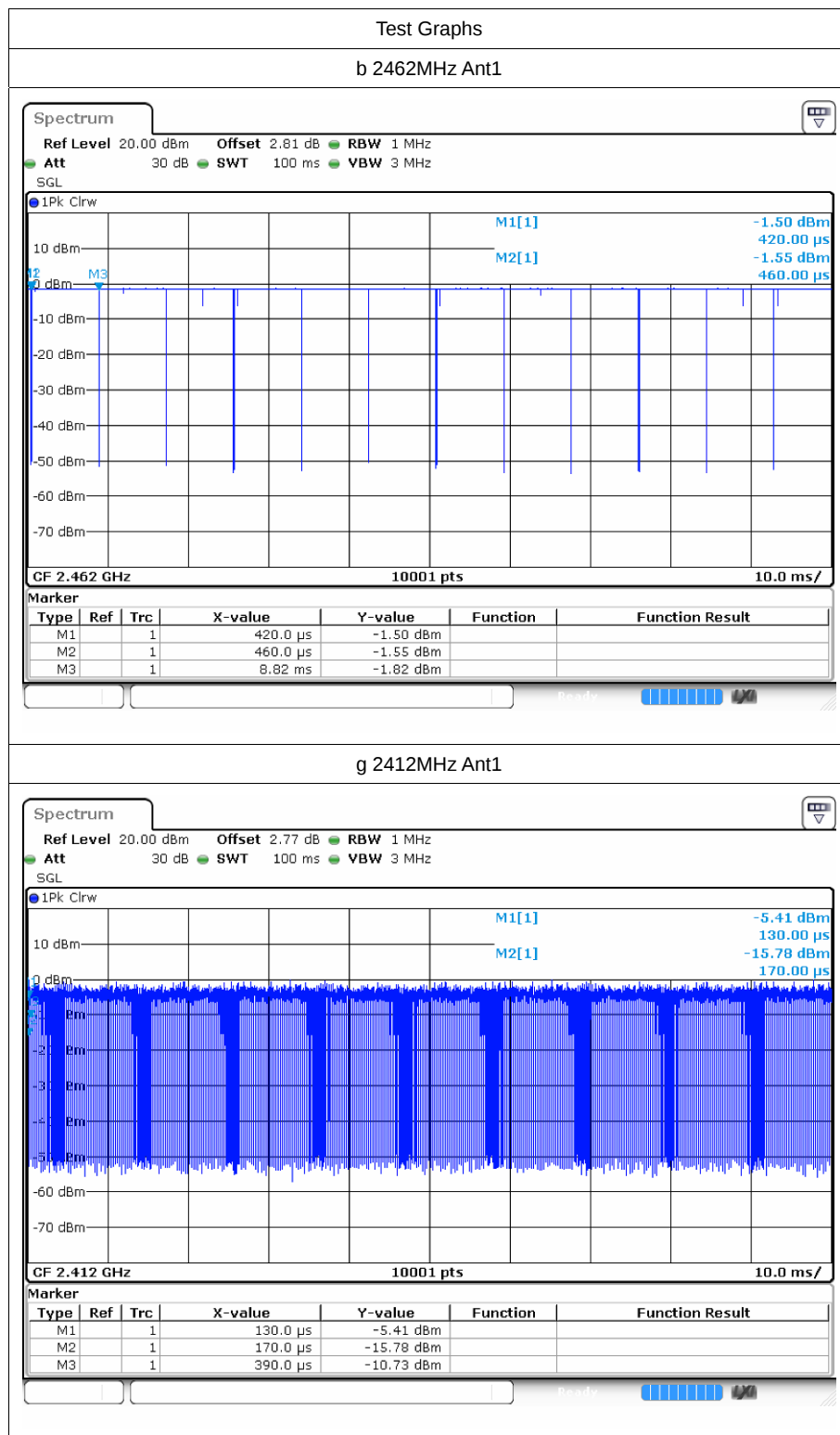
1.1 Test Result

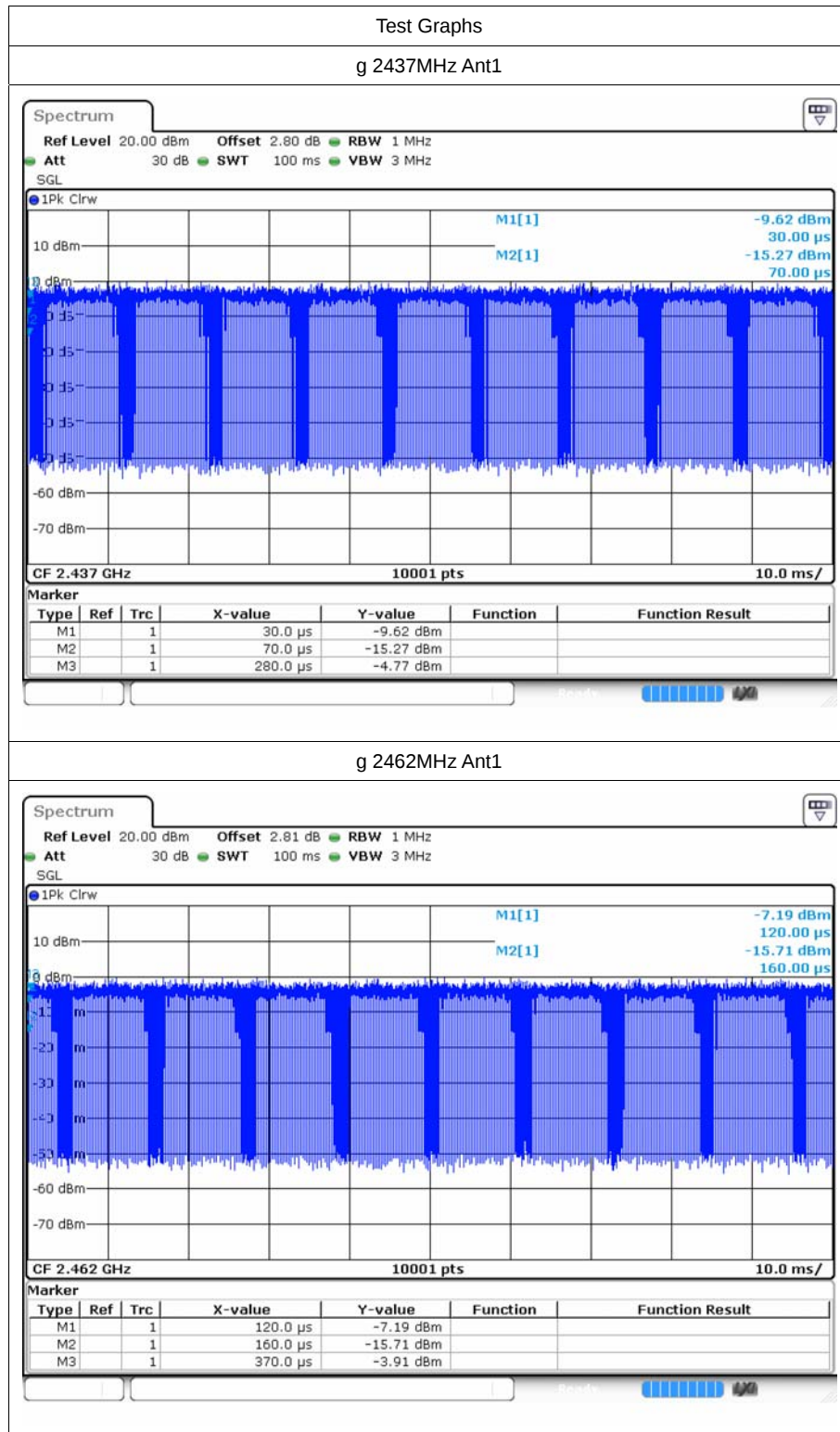
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
b	2412	Ant1	99.6	0.01
b	2437	Ant1	99.6	0.01
b	2462	Ant1	99.61	0.01
g	2412	Ant1	86.83	4.55
g	2437	Ant1	86.83	4.76
g	2462	Ant1	86.89	4.76
n20	2412	Ant1	87.52	4.35
n20	2437	Ant1	87.49	4.17
n20	2462	Ant1	87.55	4.17

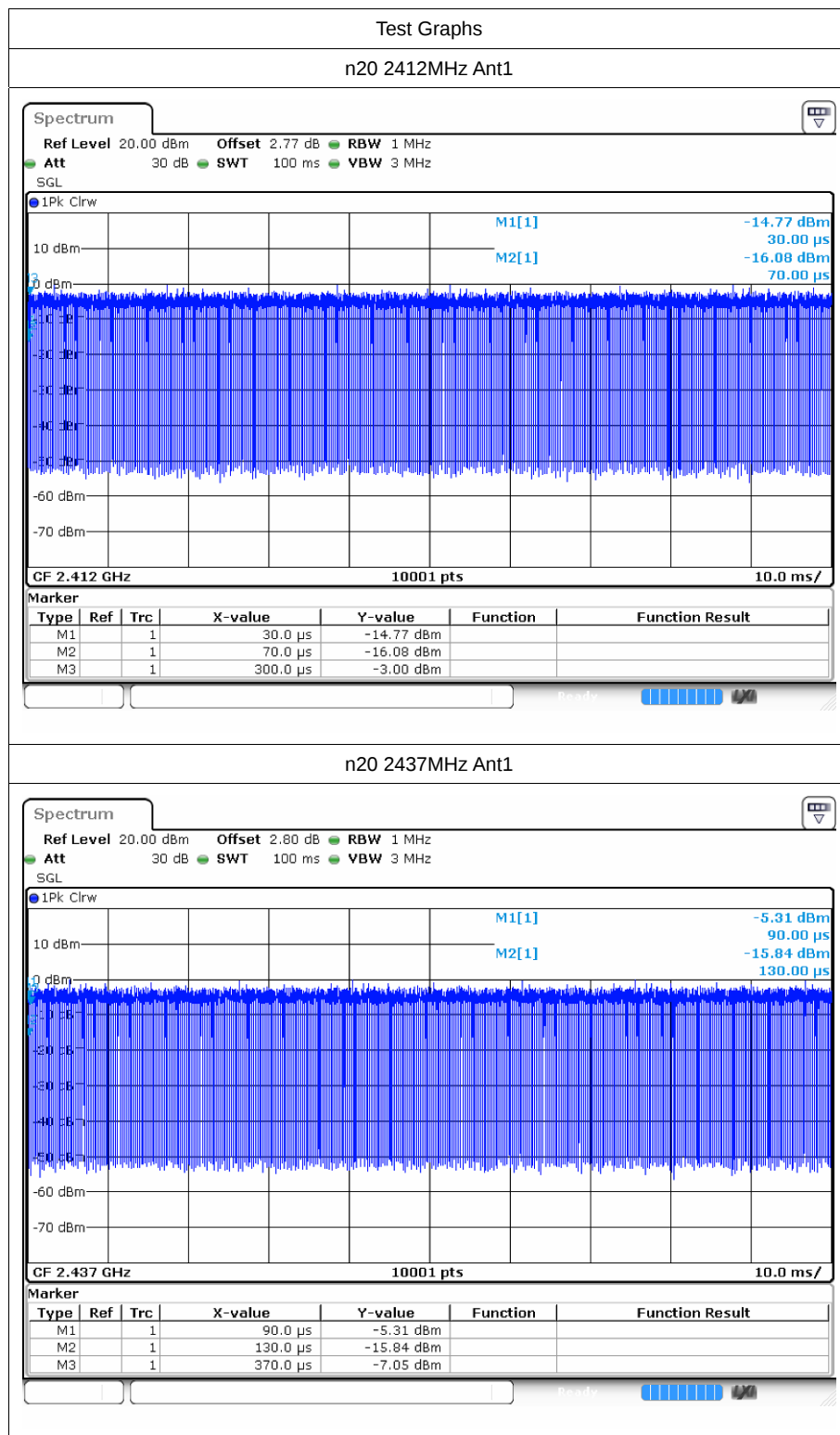


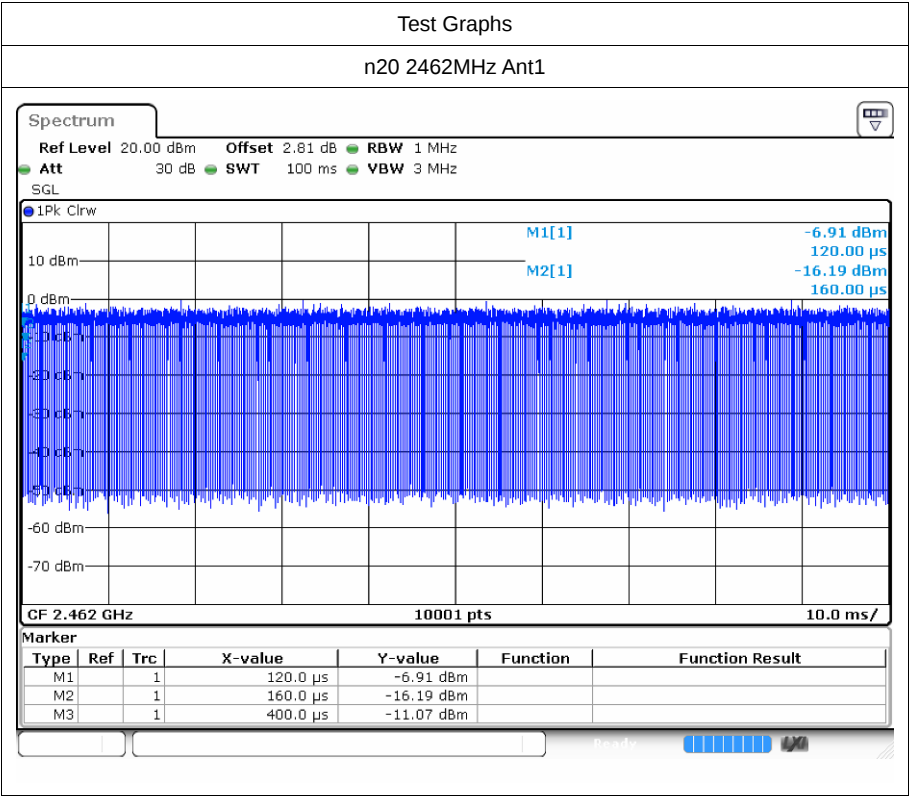
1.2 Test Graphs













2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	9.18	30	Pass
b	2437	Ant1	9.13	30	Pass
b	2462	Ant1	9.11	30	Pass
g	2412	Ant1	8.78	30	Pass
g	2437	Ant1	8.92	30	Pass
g	2462	Ant1	8.82	30	Pass
n20	2412	Ant1	8.71	30	Pass
n20	2437	Ant1	8.73	30	Pass
n20	2462	Ant1	8.53	30	Pass

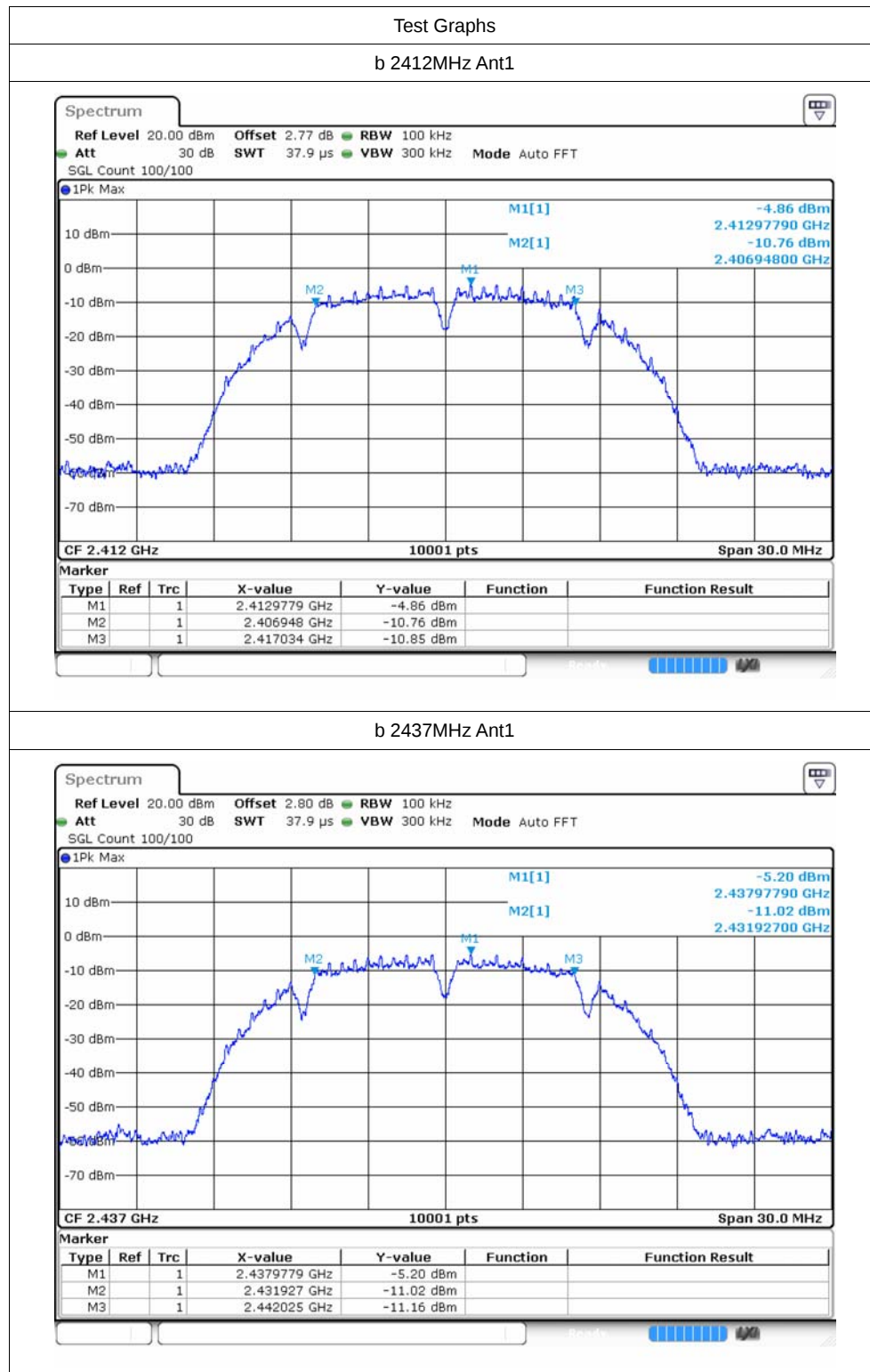


3 -6dB Bandwidth

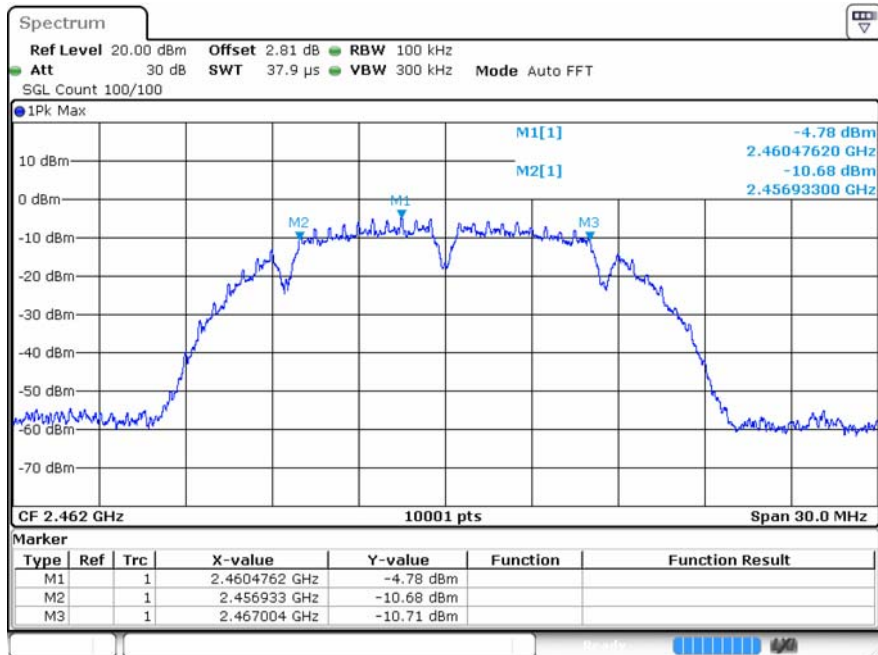
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.086	0.5	Pass
b	2437	Ant1	10.098	0.5	Pass
b	2462	Ant1	10.071	0.5	Pass
g	2412	Ant1	15.117	0.5	Pass
g	2437	Ant1	15.117	0.5	Pass
g	2462	Ant1	15.114	0.5	Pass
n20	2412	Ant1	15.105	0.5	Pass
n20	2437	Ant1	15.114	0.5	Pass
n20	2462	Ant1	15.117	0.5	Pass

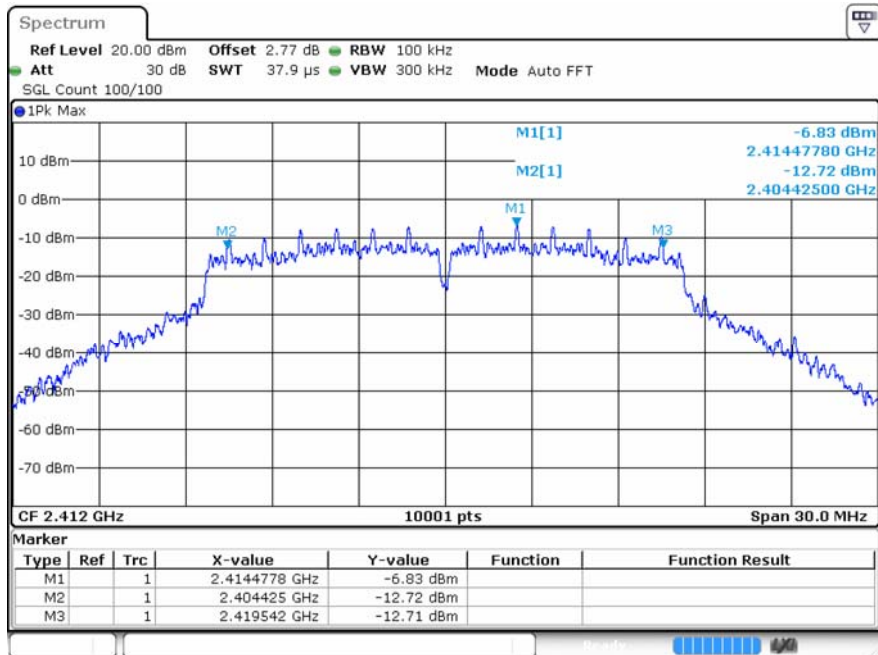
3.2 Test Graphs

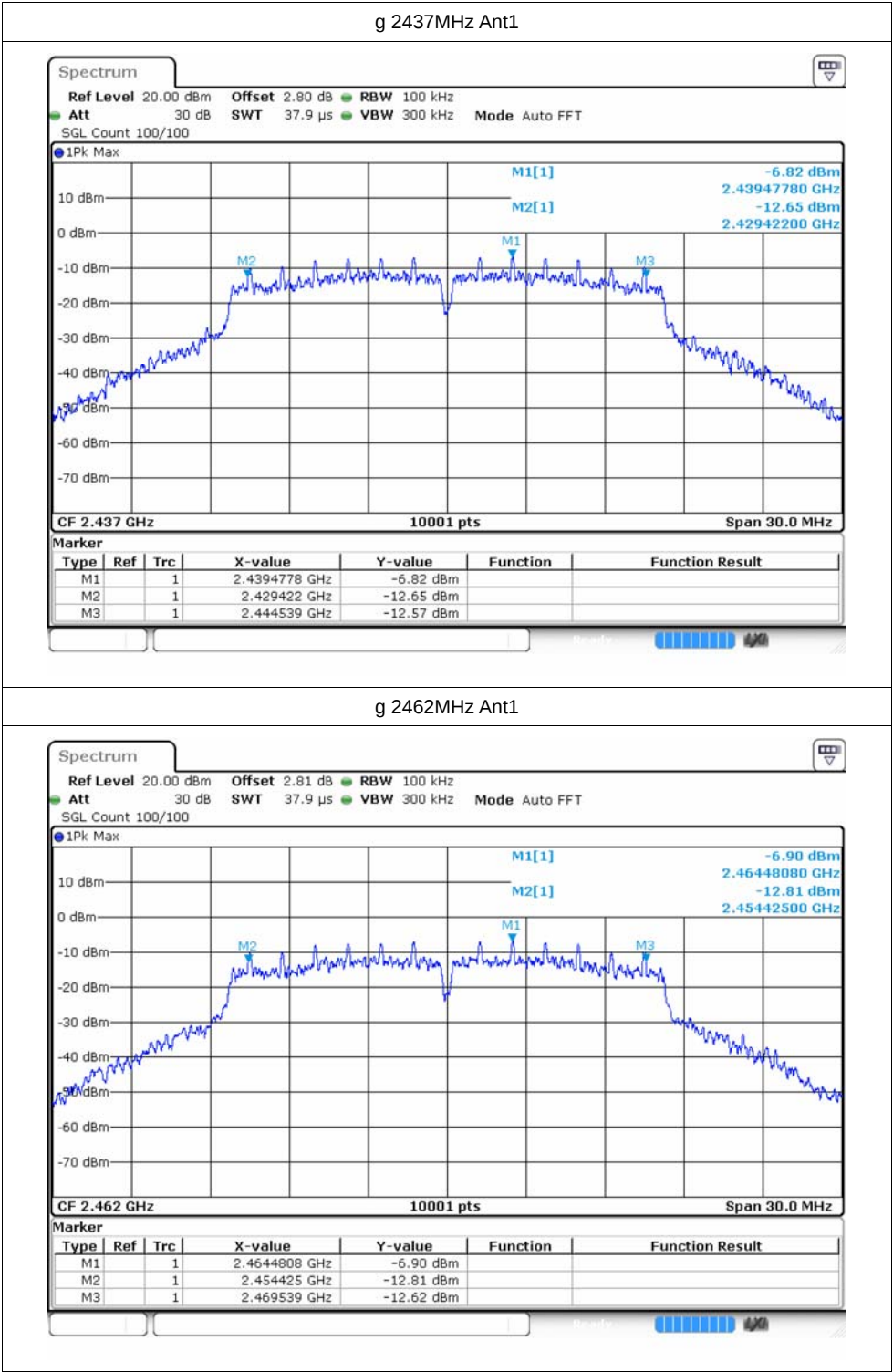


b 2462MHz Ant1



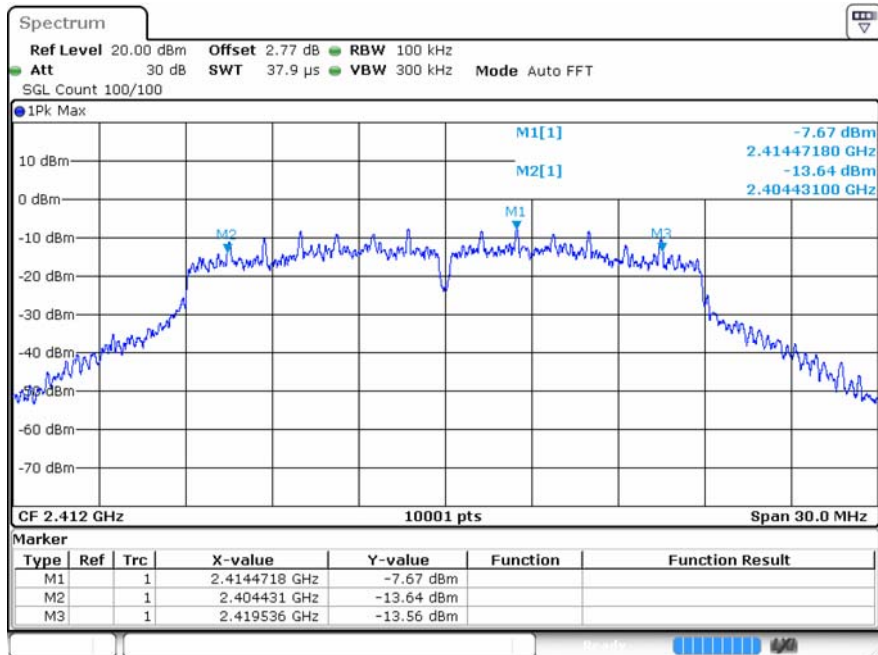
g 2412MHz Ant1



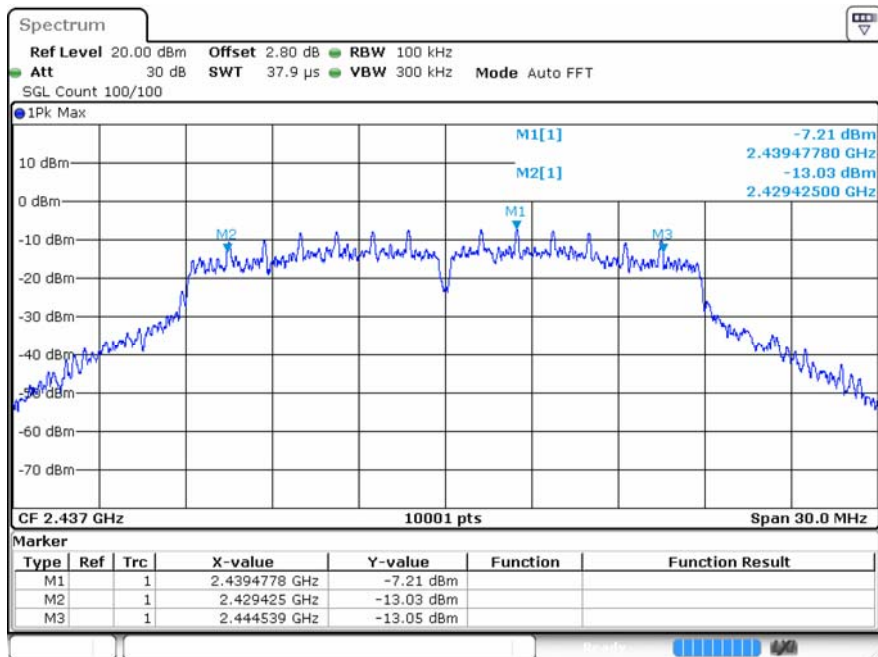


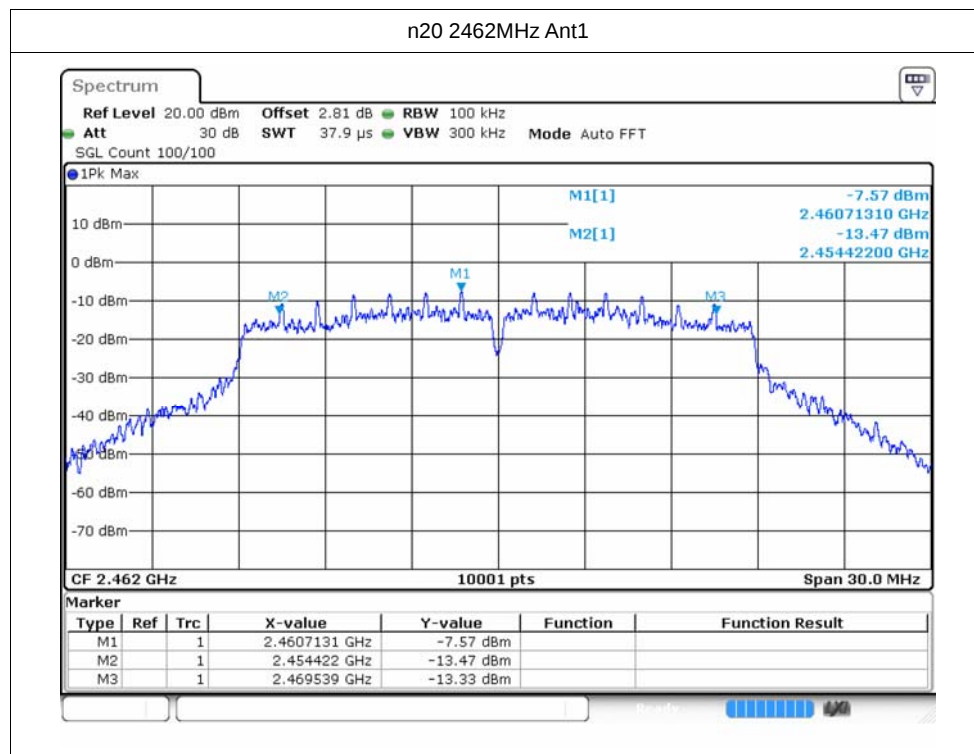


n20 2412MHz Ant1



n20 2437MHz Ant1



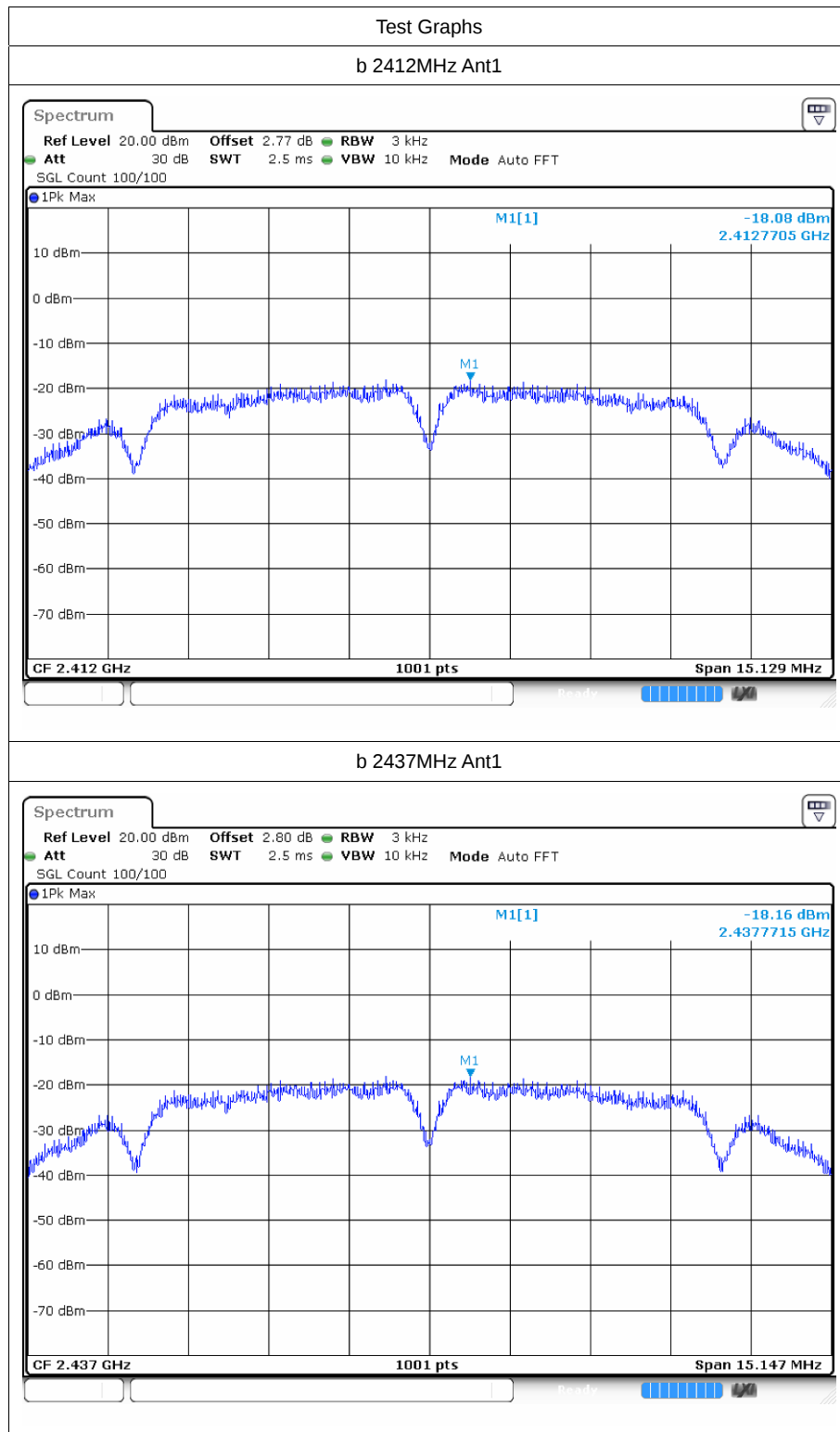


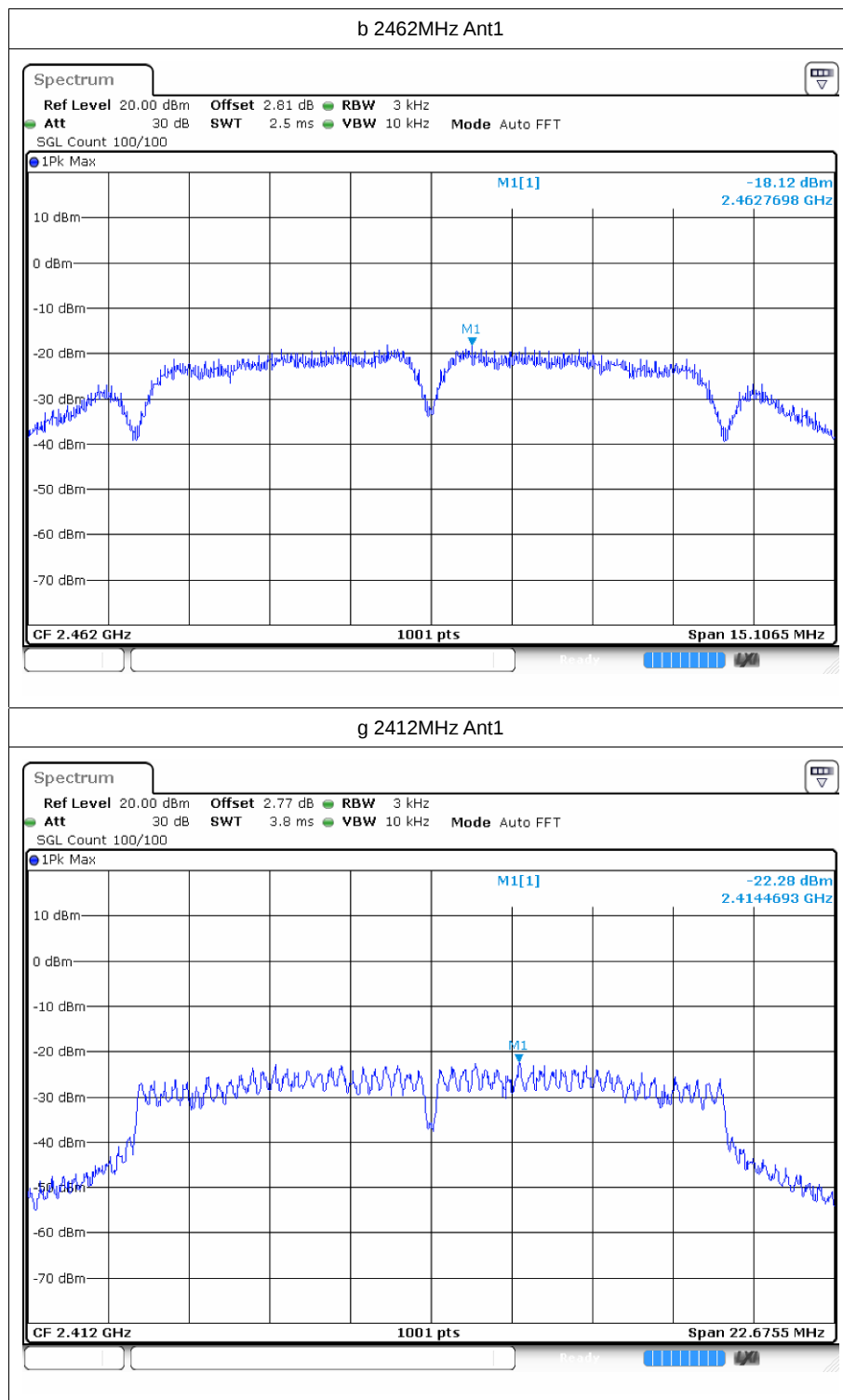
4 Maximum Power Spectral Density Level

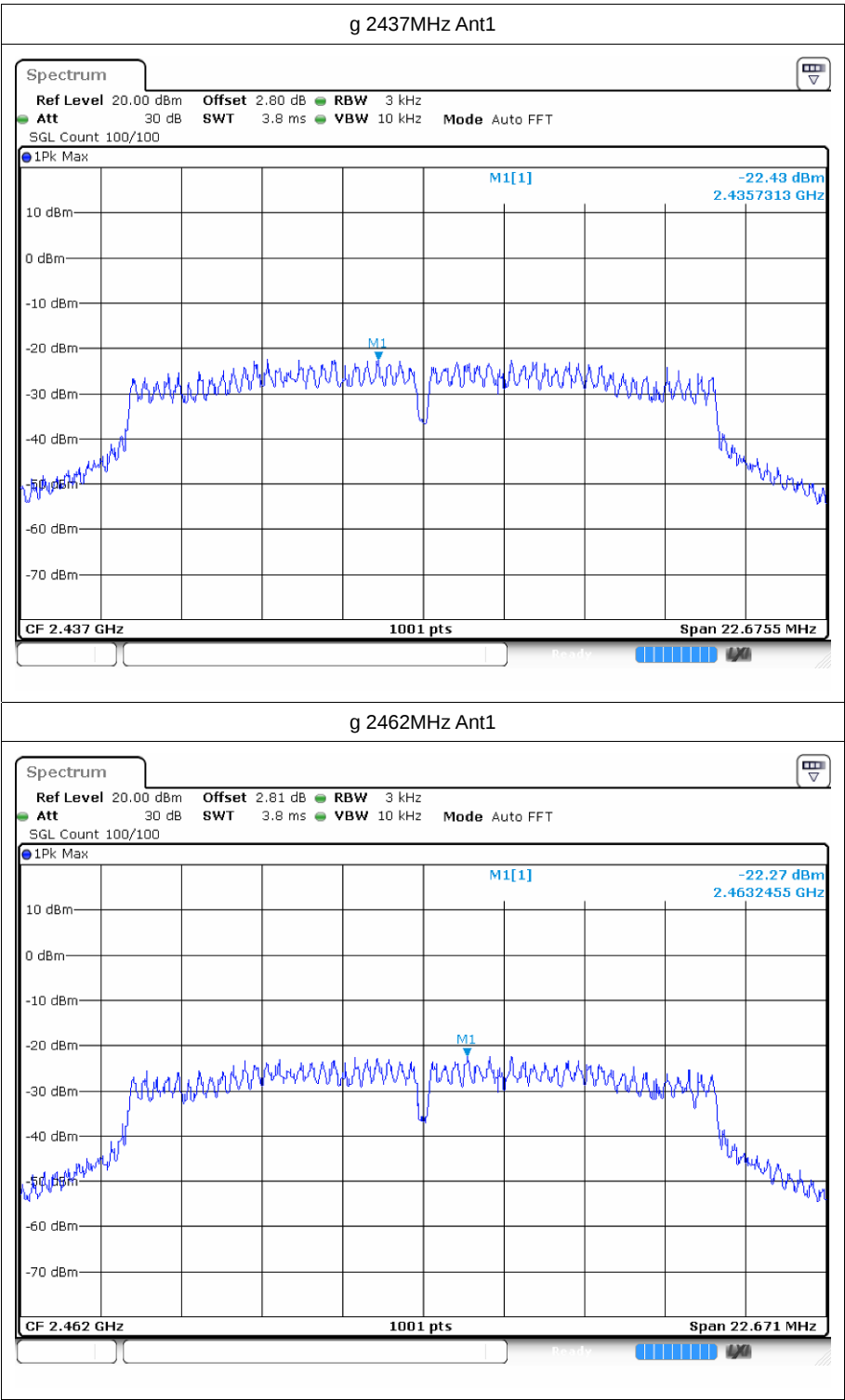
4.1 Test Result

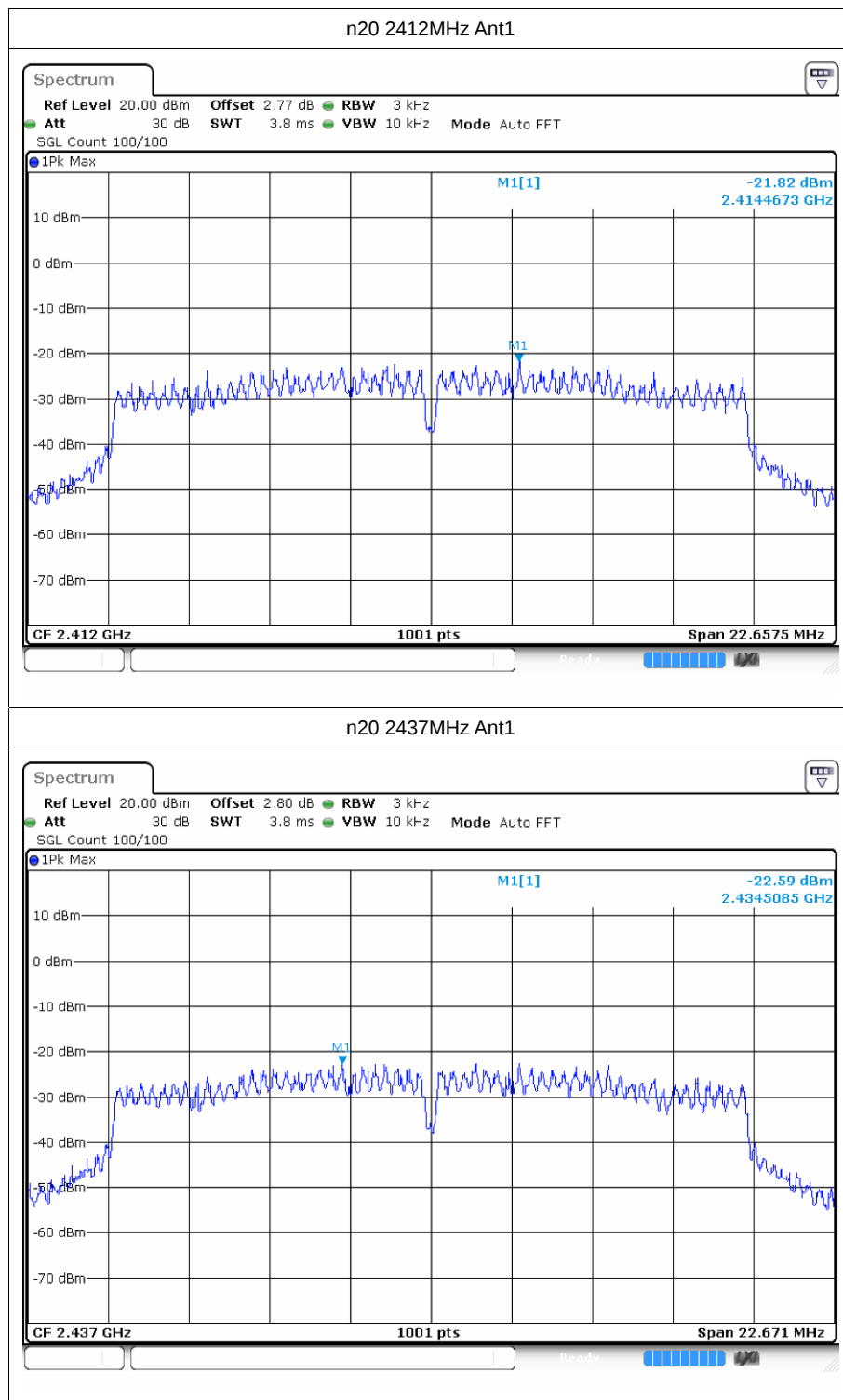
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-18.08	≤ 8	Pass
b	2437	Ant1	-18.16	≤ 8	Pass
b	2462	Ant1	-18.12	≤ 8	Pass
g	2412	Ant1	-22.28	≤ 8	Pass
g	2437	Ant1	-22.43	≤ 8	Pass
g	2462	Ant1	-22.27	≤ 8	Pass
n20	2412	Ant1	-21.82	≤ 8	Pass
n20	2437	Ant1	-22.59	≤ 8	Pass
n20	2462	Ant1	-22.31	≤ 8	Pass

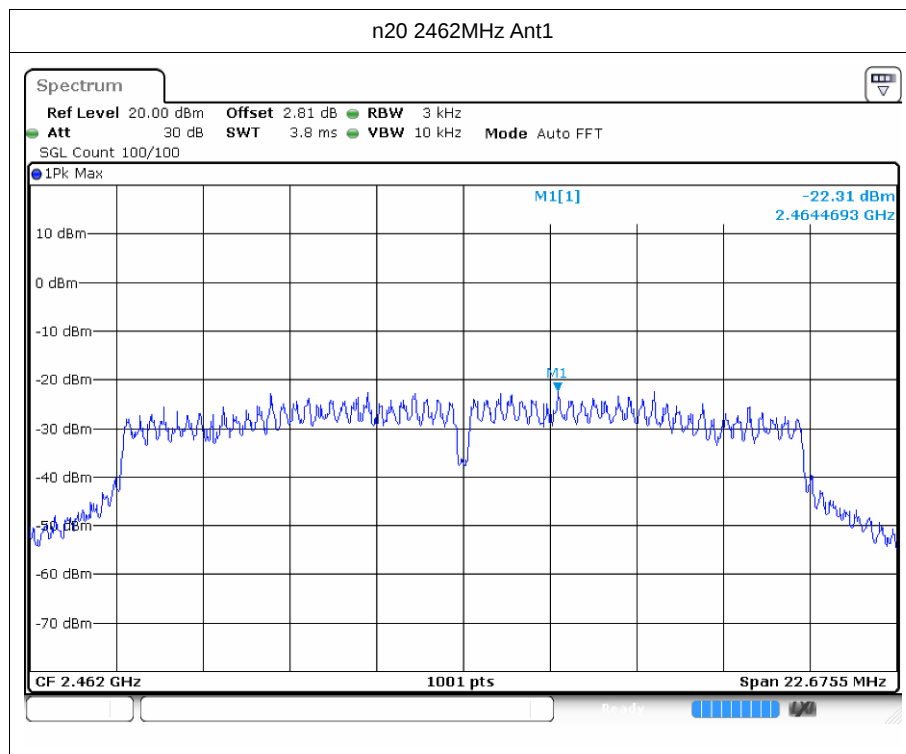
4.2 Test Graphs











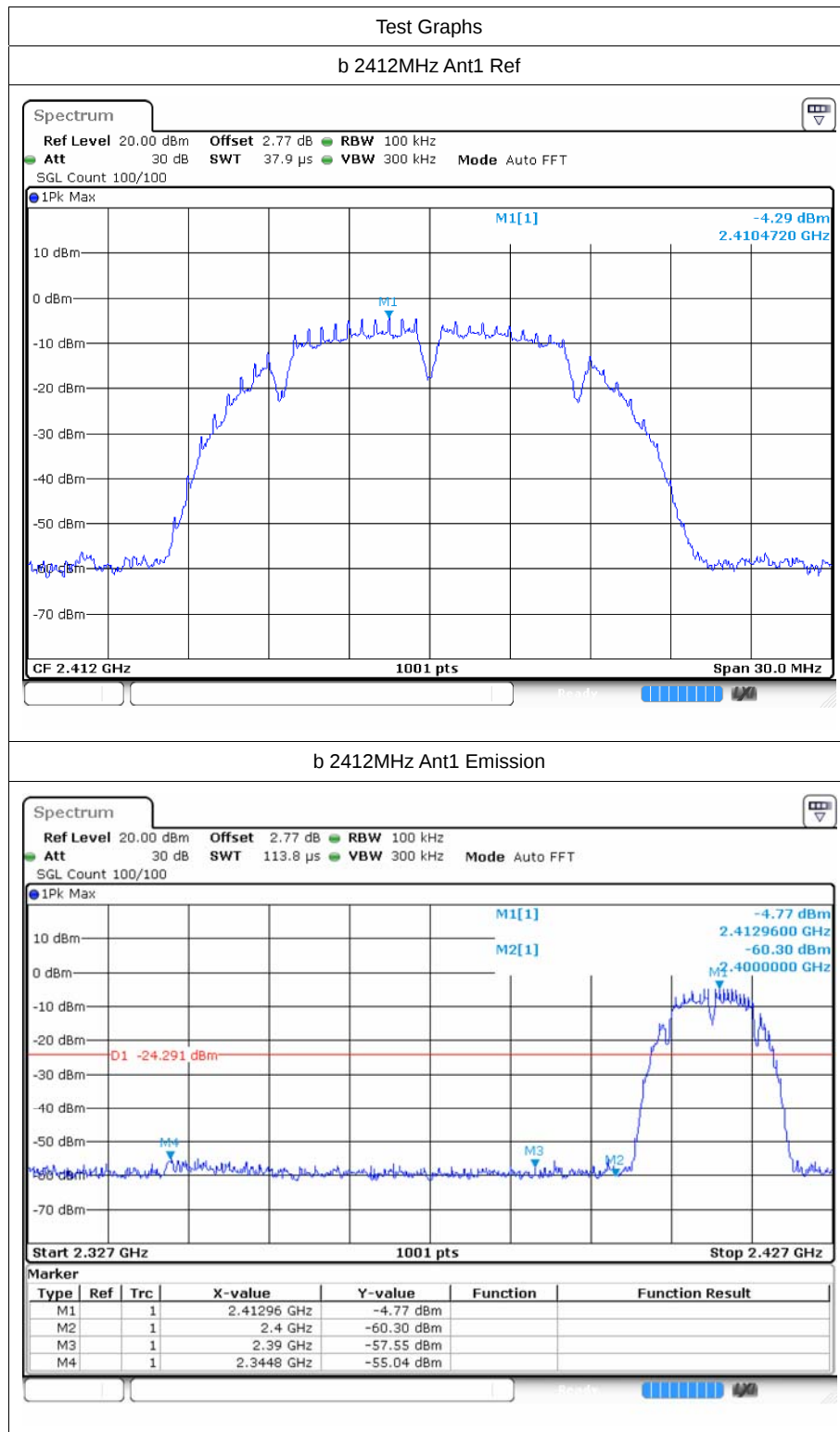


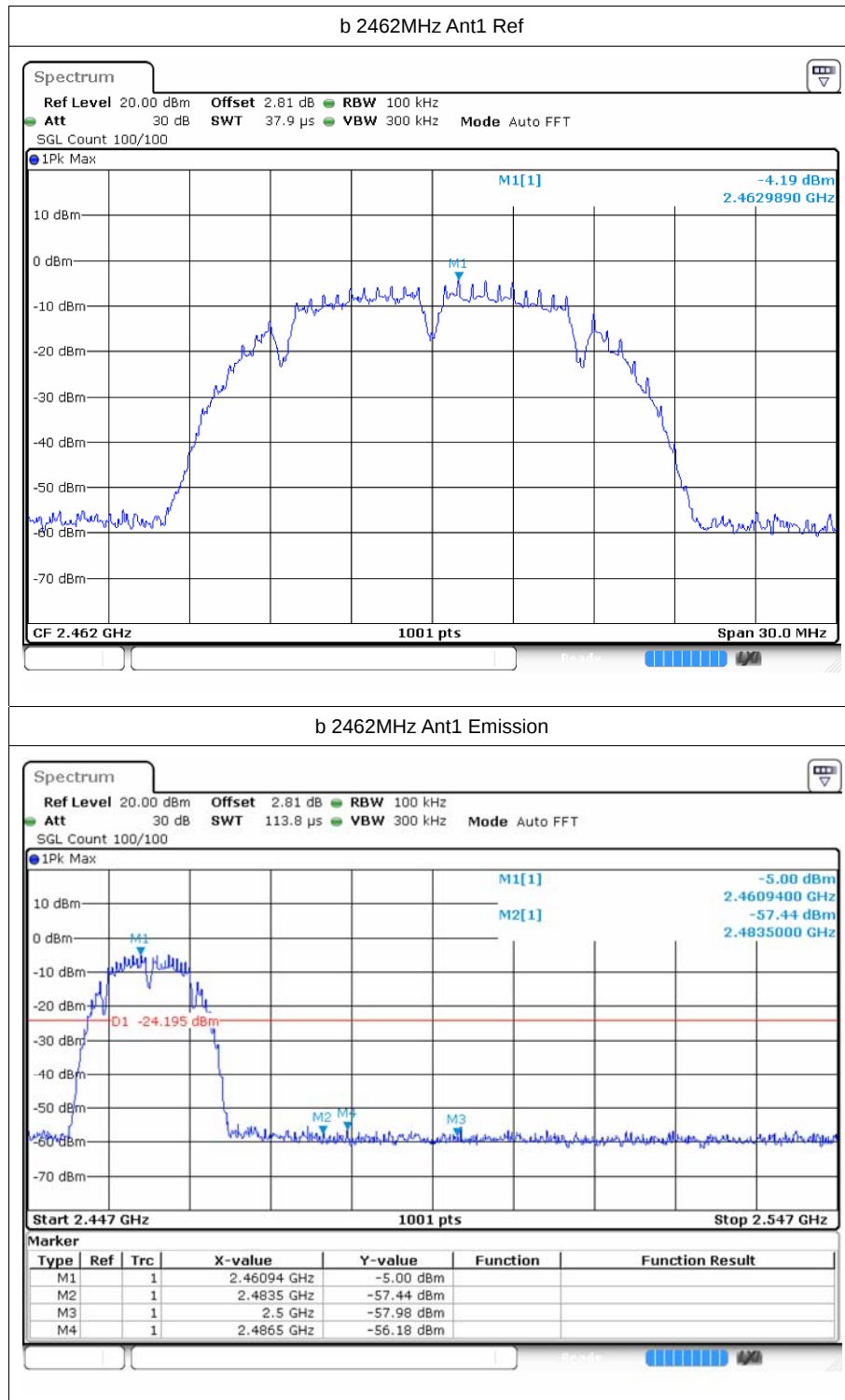
5 Band Edge

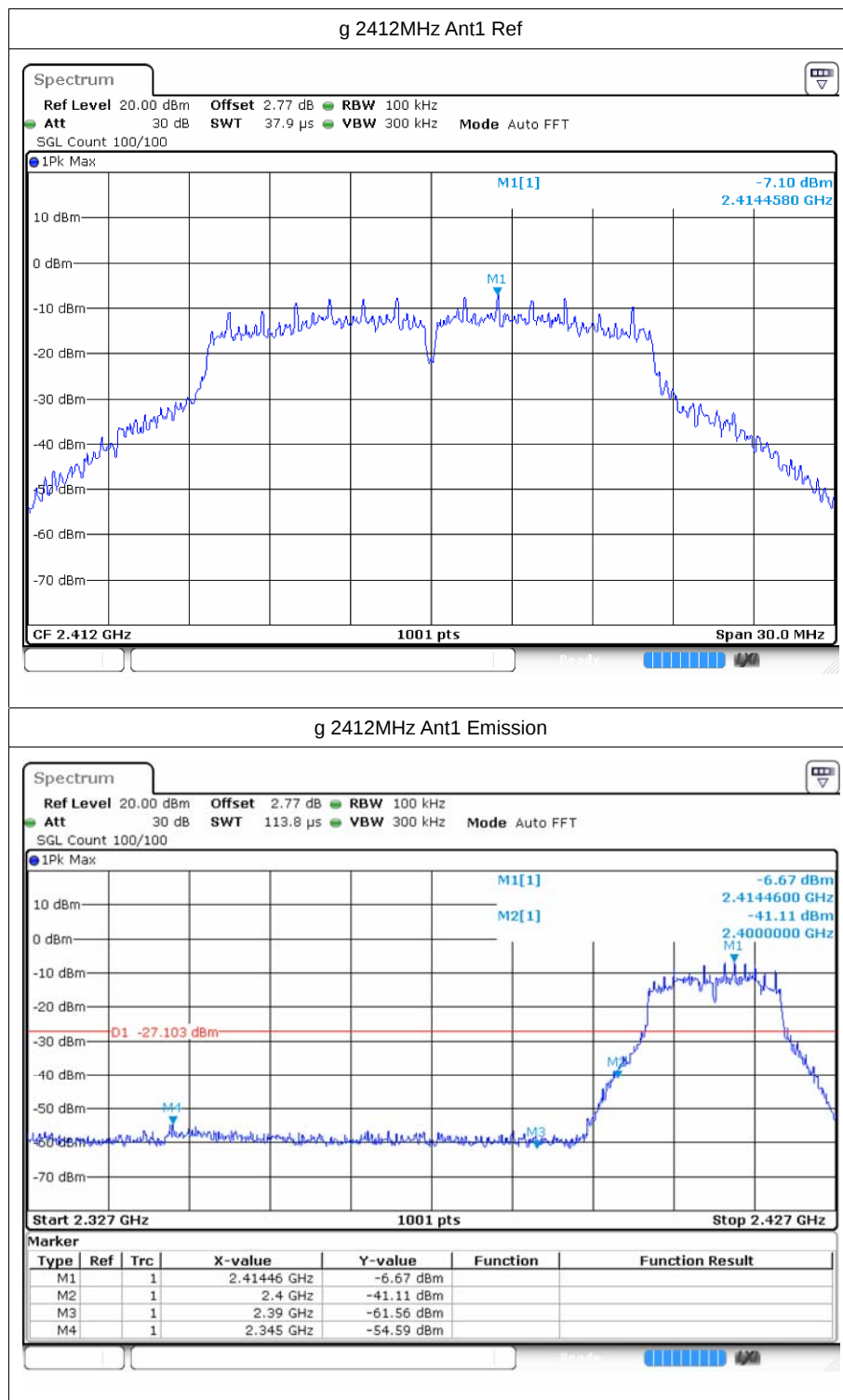
5.1 Test Result

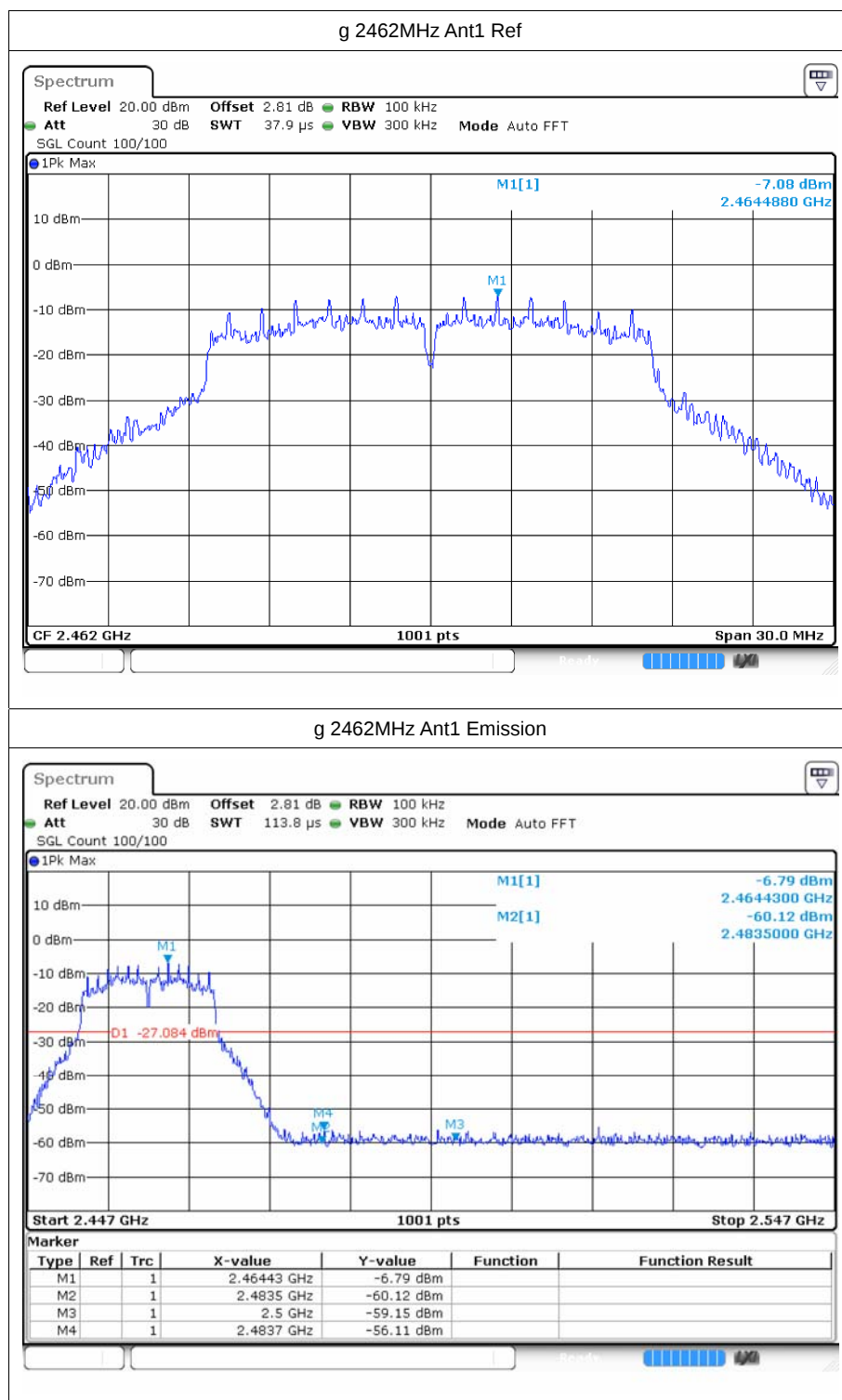
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-50.74	-20	-50.74
b	2462	Ant1	-51.99	-20	Pass
g	2412	Ant1	-47.49	-20	Pass
g	2462	Ant1	-49.02	-20	Pass
n20	2412	Ant1	-47.82	-20	Pass
n20	2462	Ant1	-48.47	-20	Pass

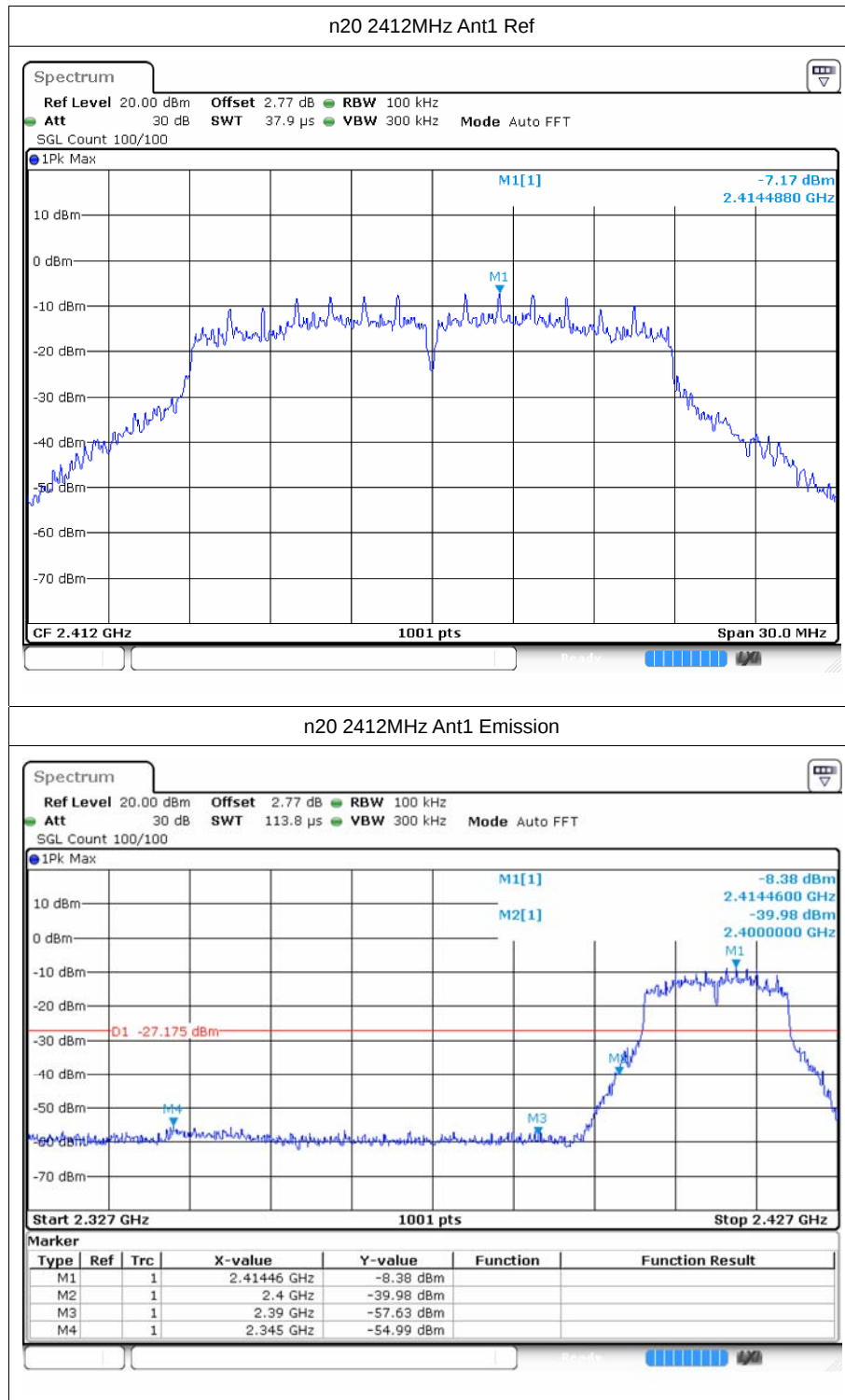
5.2 Test Graphs

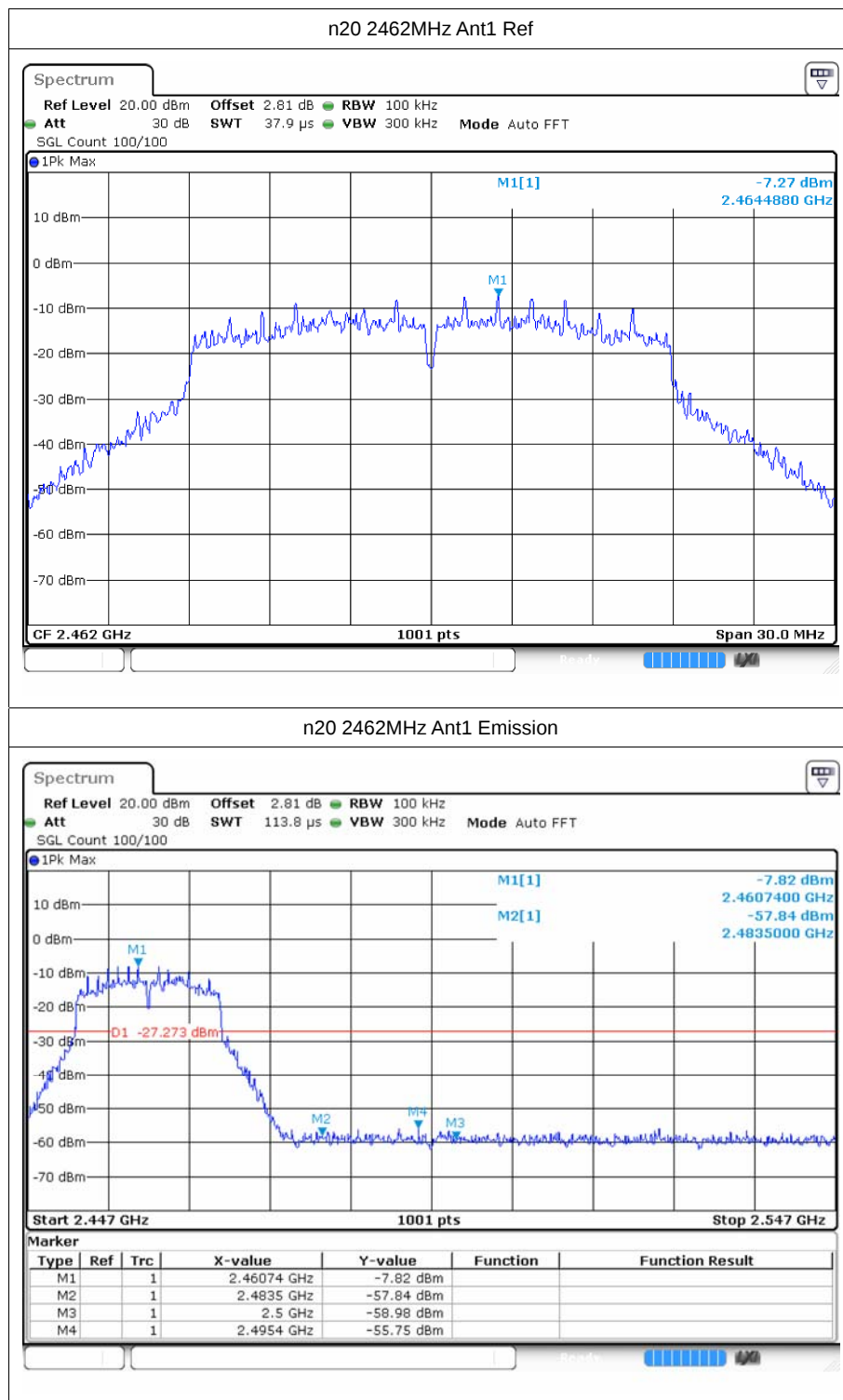












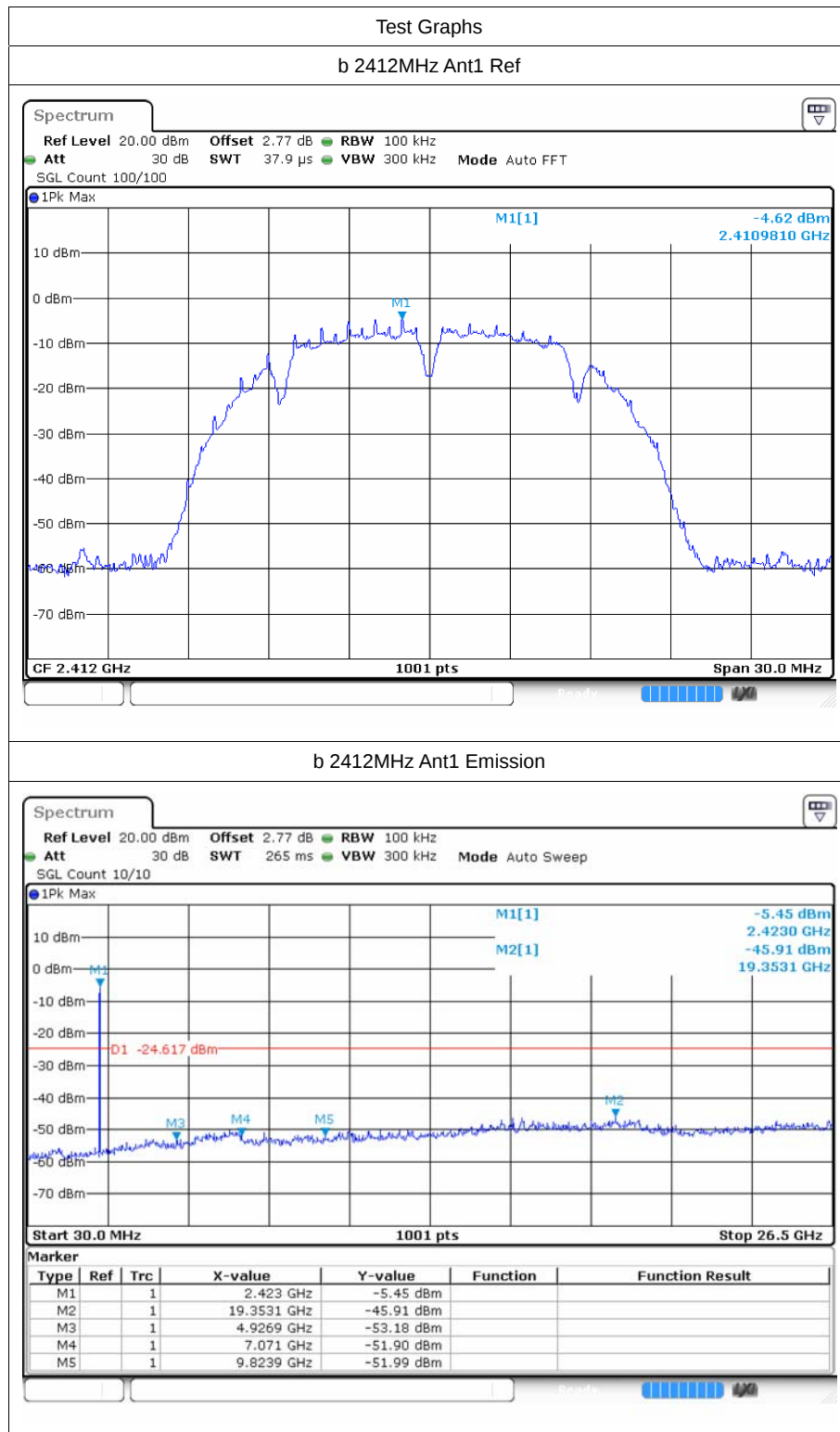


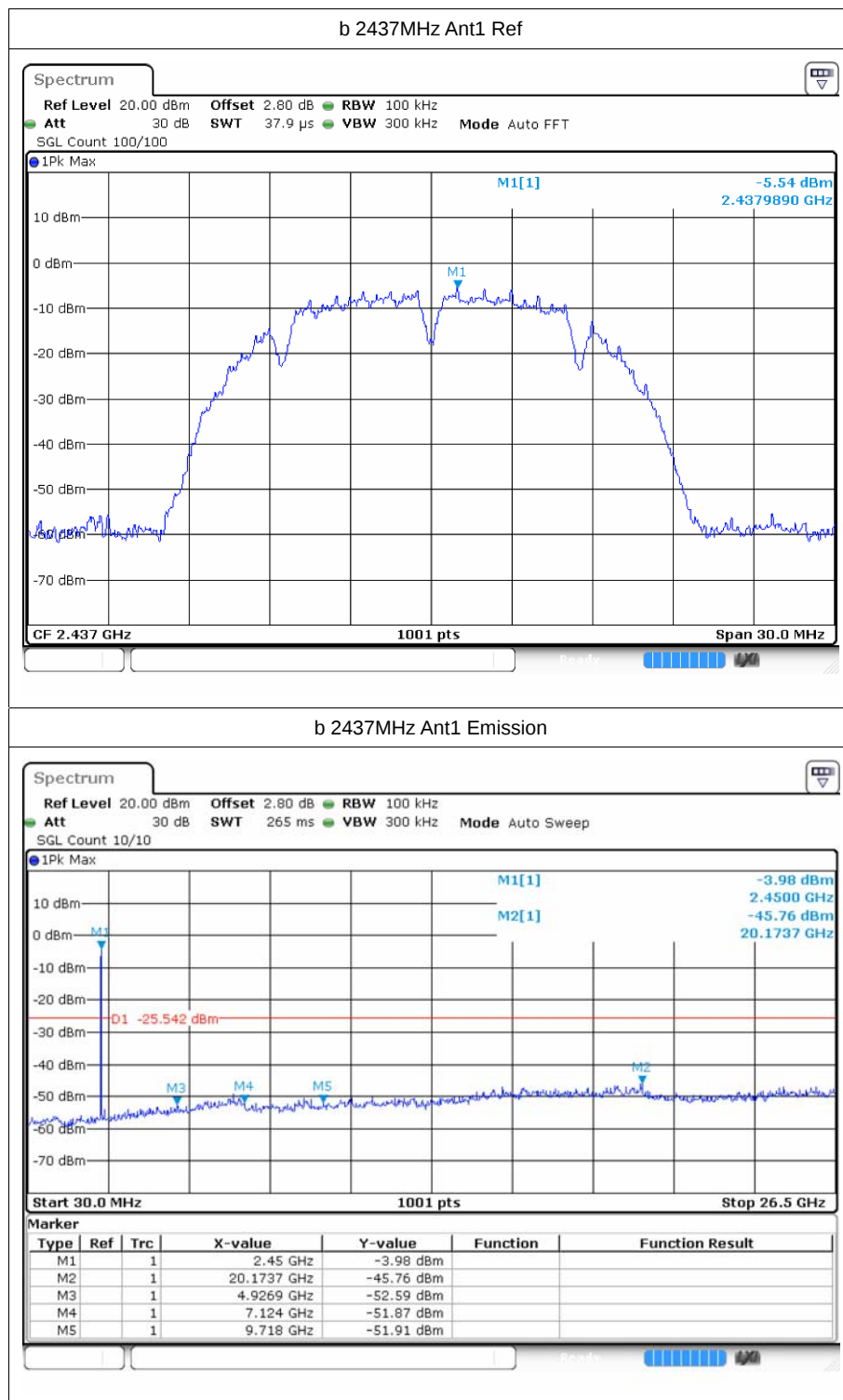
6 Conducted RF Spurious Emission

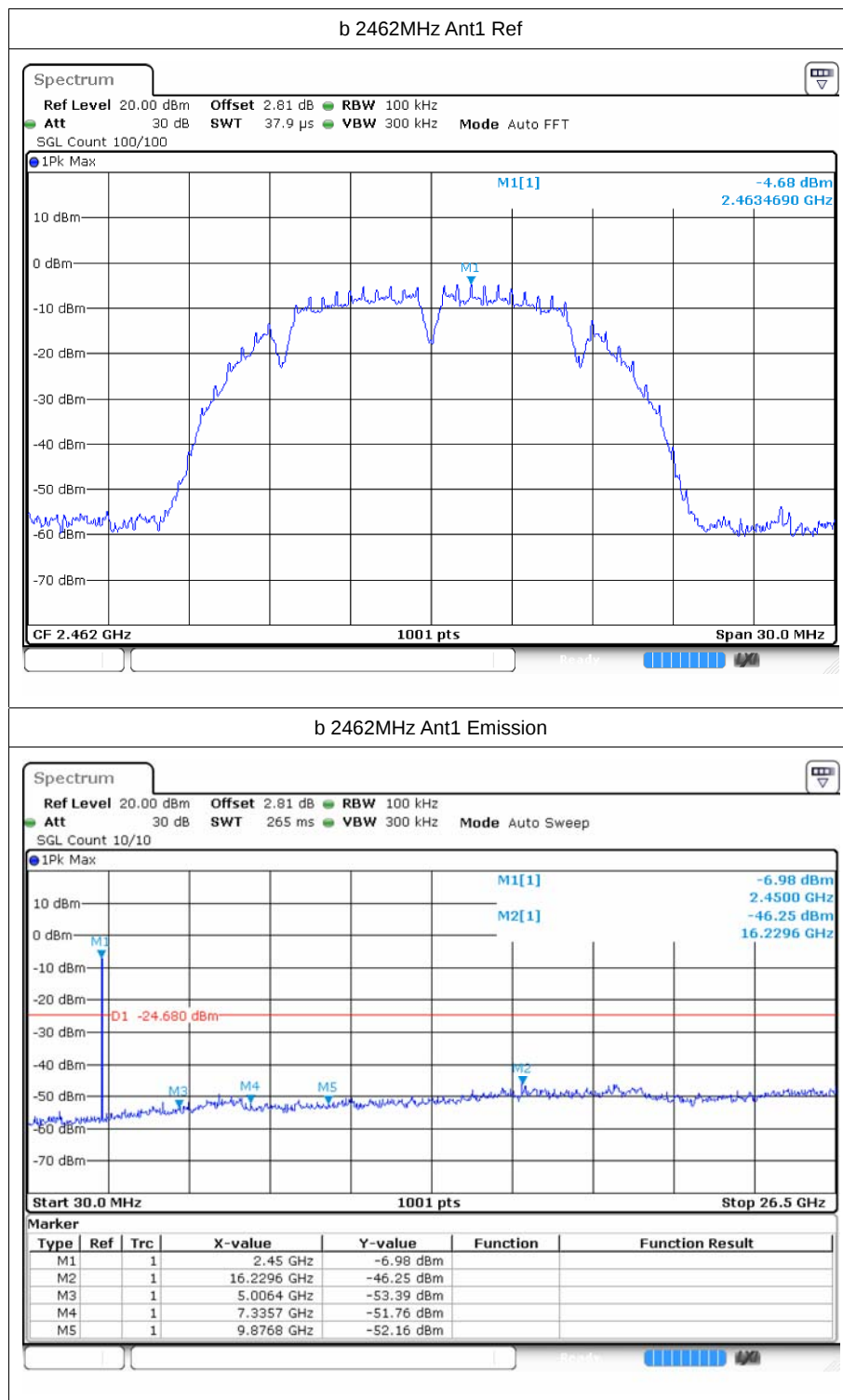
6.1 Test Result

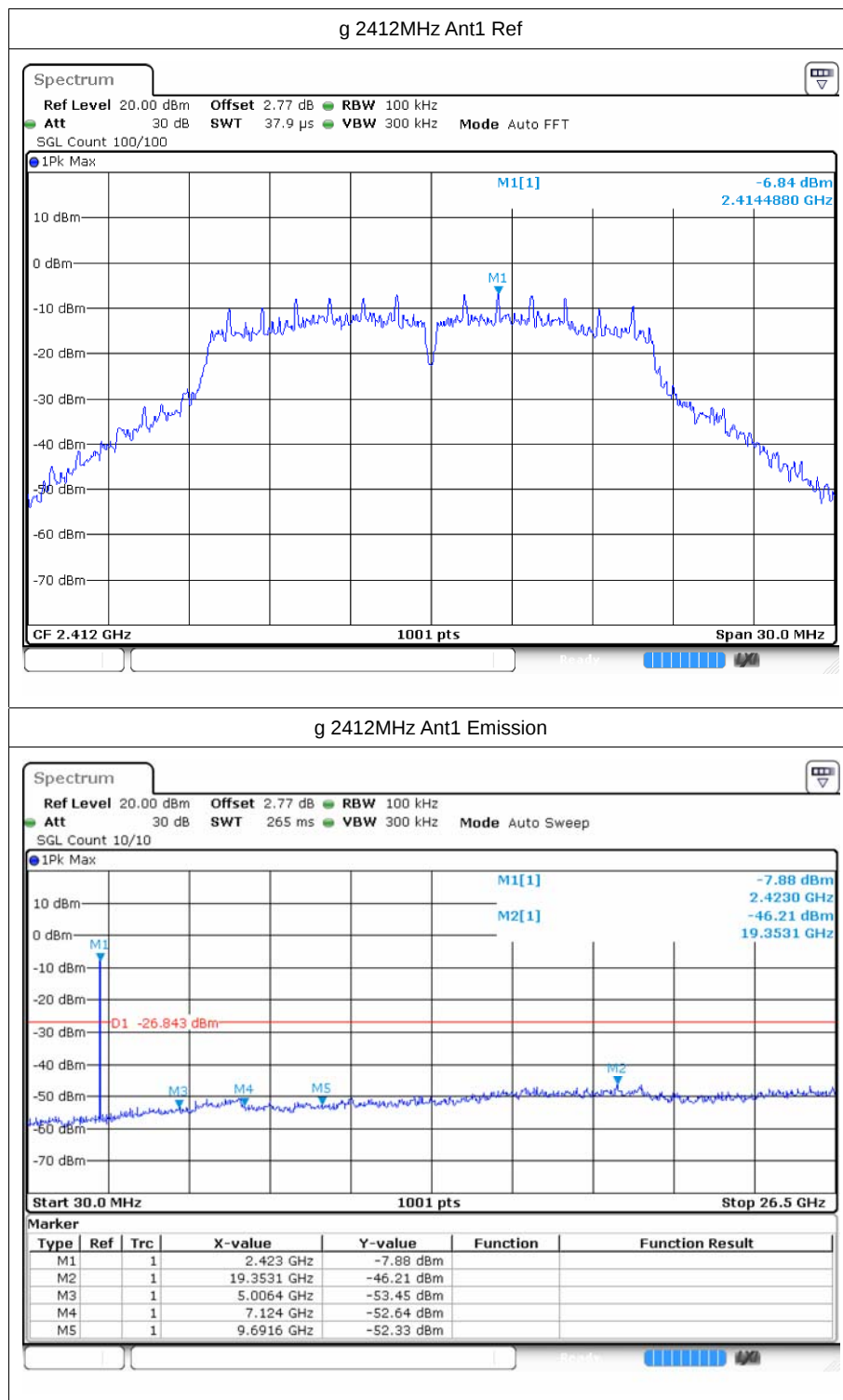
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-41.28	-20	Pass
b	2437	Ant1	-40.21	-20	Pass
b	2462	Ant1	-41.57	-20	Pass
g	2412	Ant1	-39.37	-20	Pass
g	2437	Ant1	-39.52	-20	Pass
g	2462	Ant1	-38.17	-20	Pass
n20	2412	Ant1	-39.15	-20	Pass
n20	2437	Ant1	-38.72	-20	Pass
n20	2462	Ant1	-38.13	-20	Pass

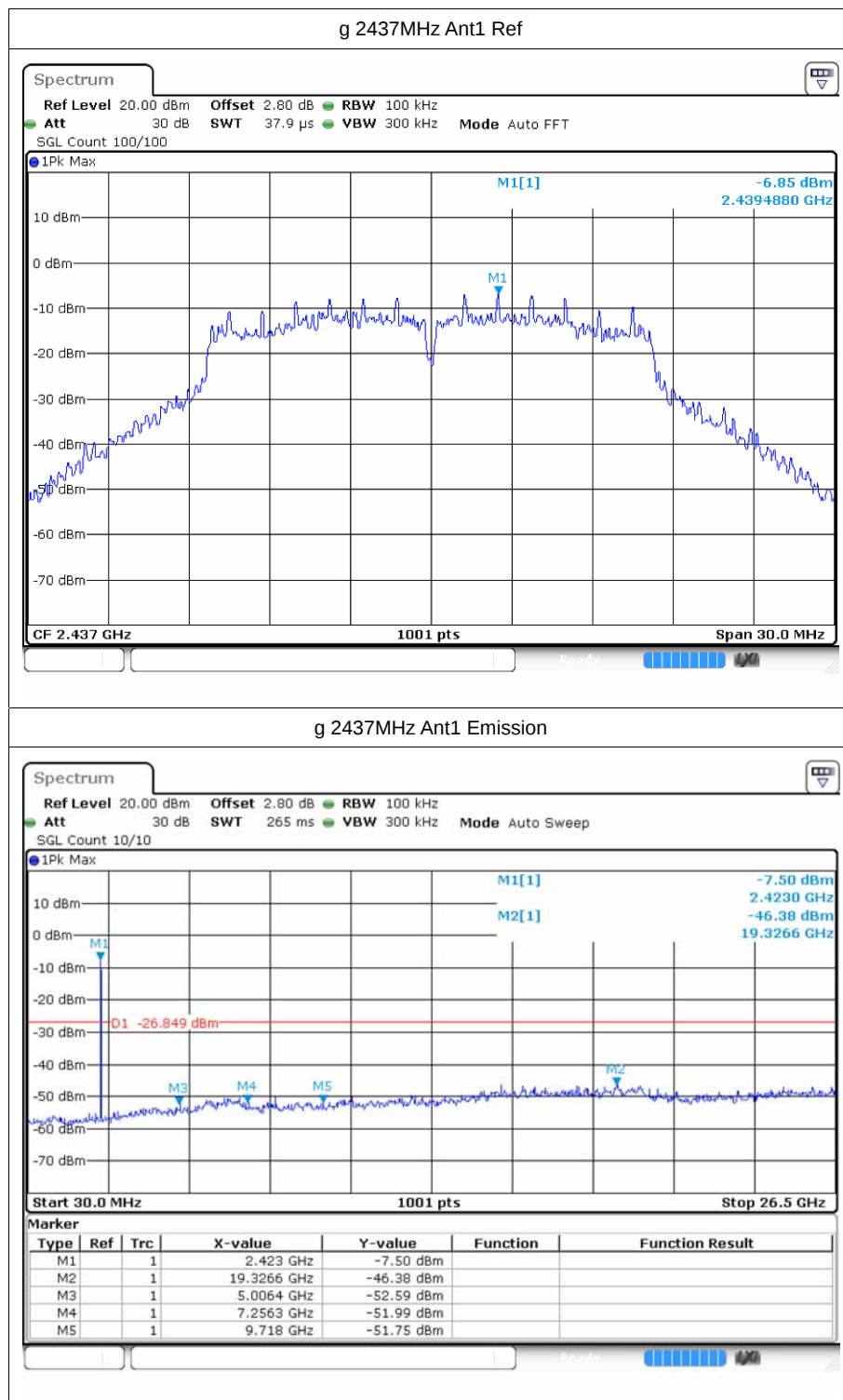
6.2 Test Graphs

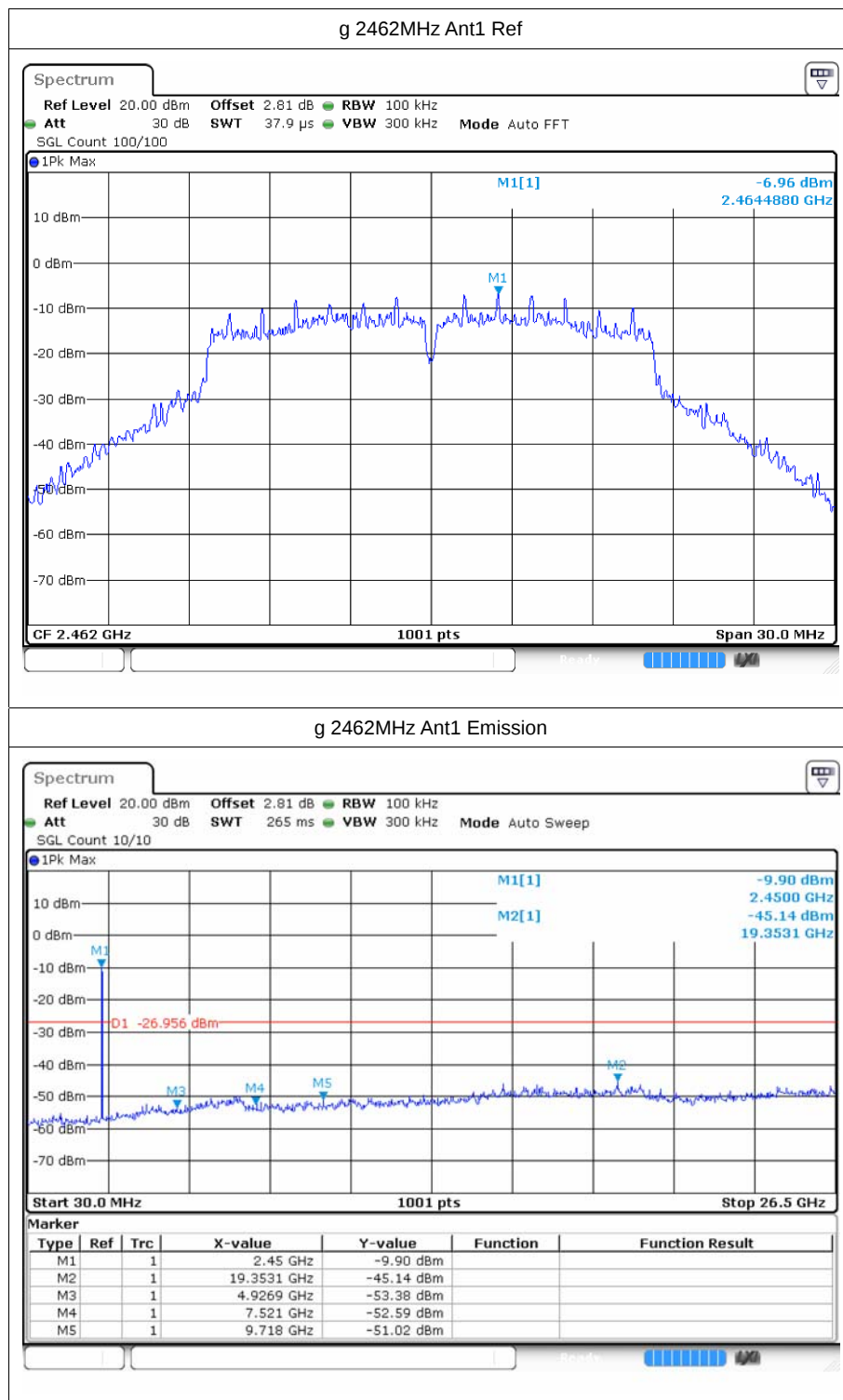


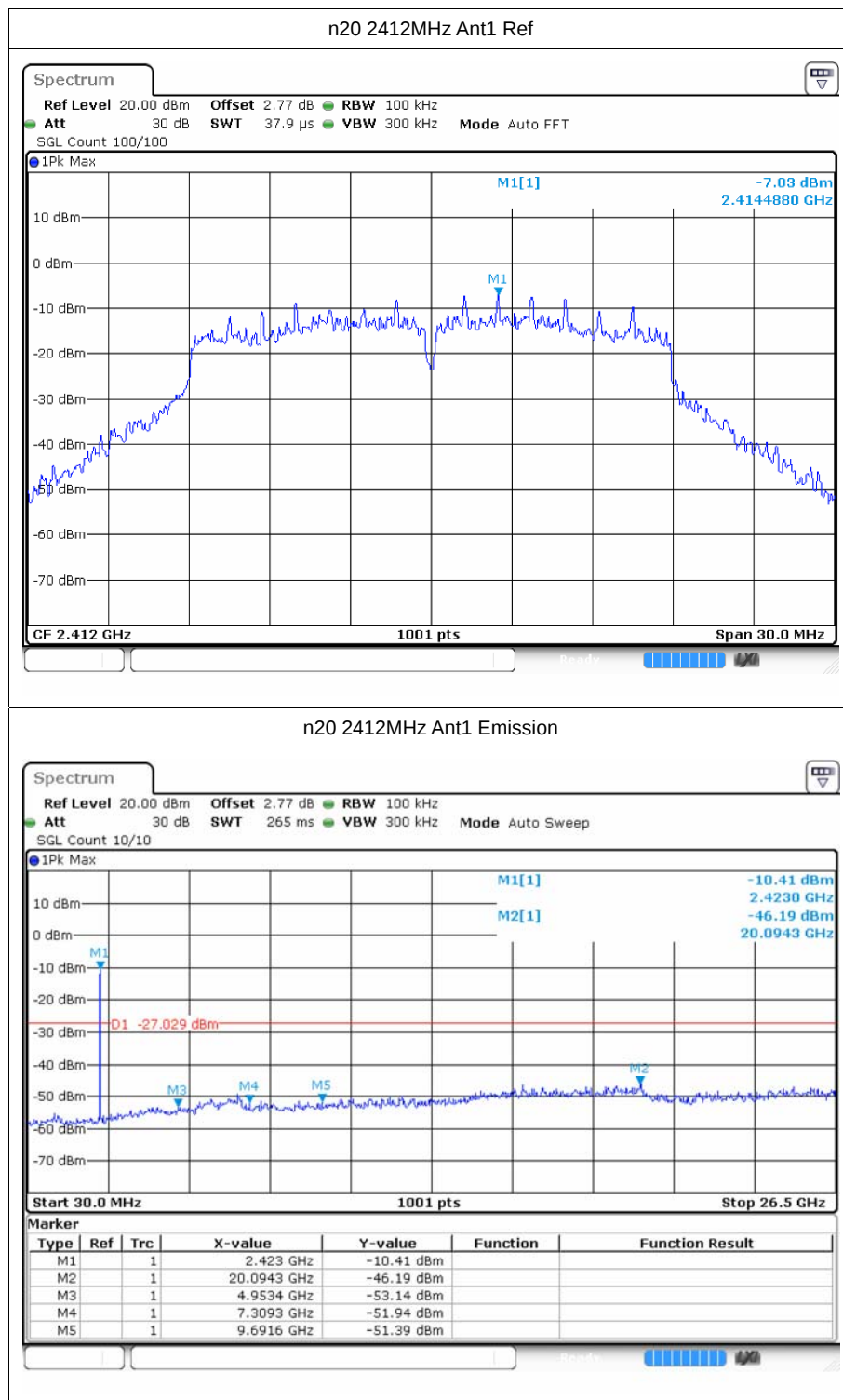


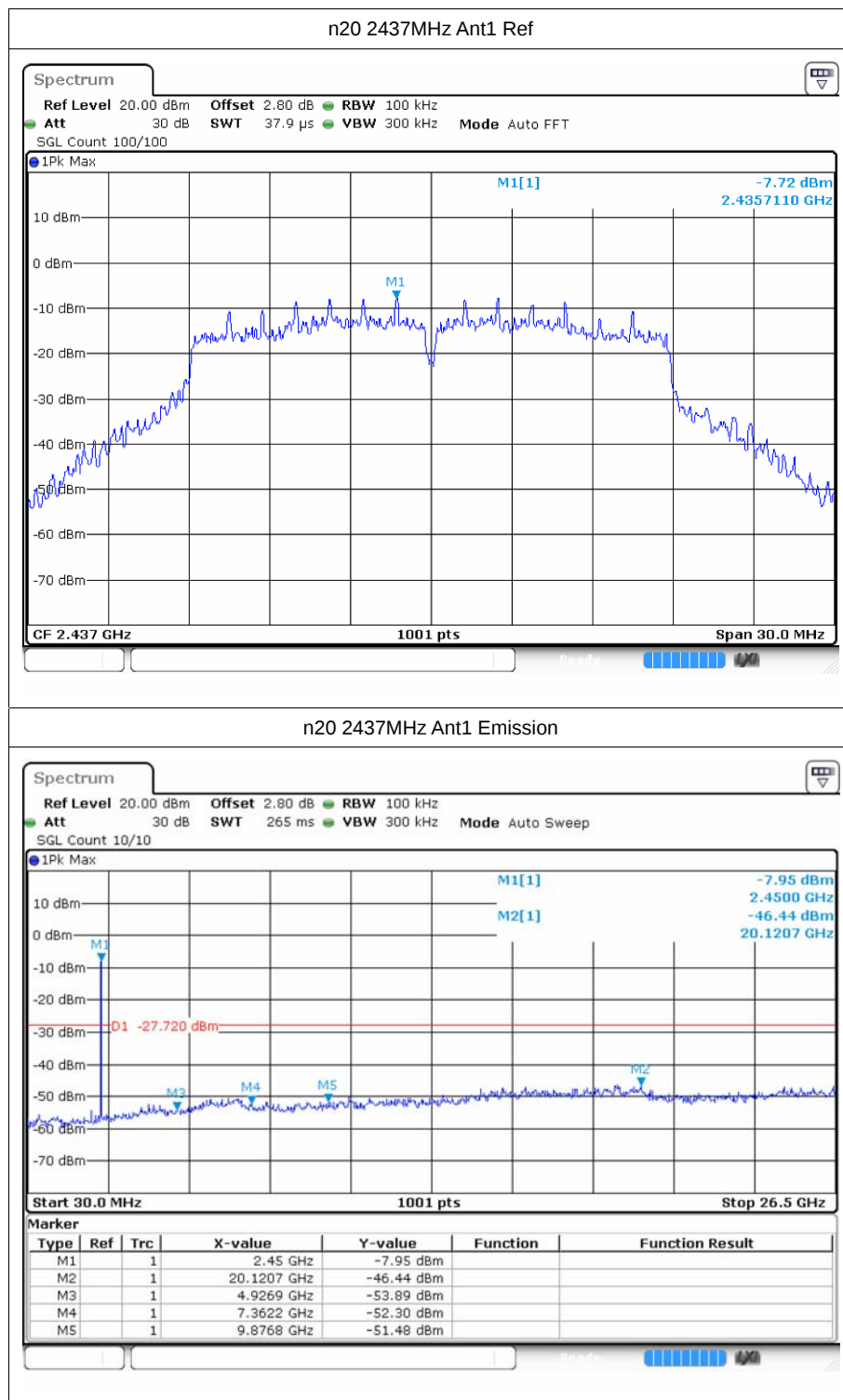


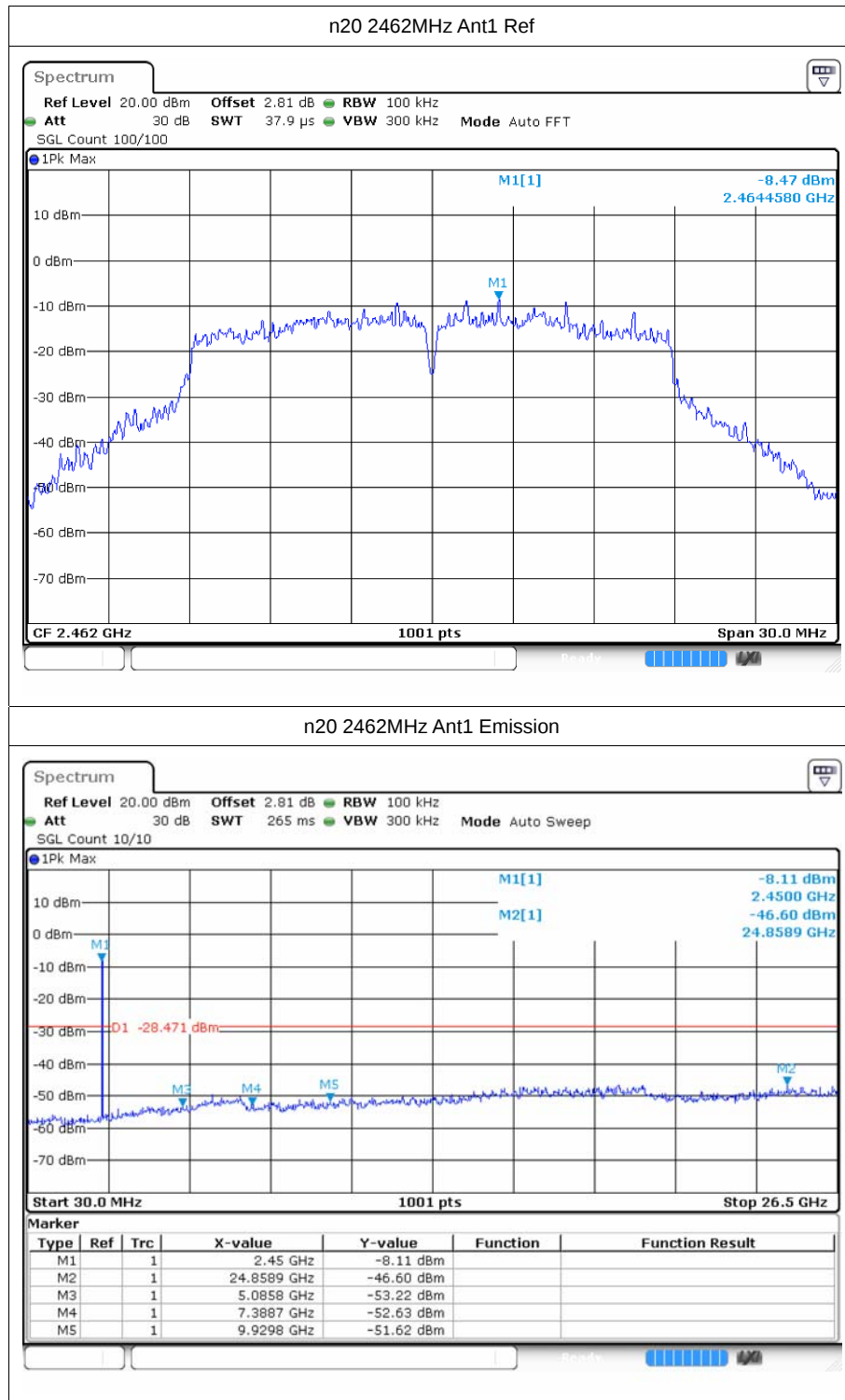














7 Restrict Band

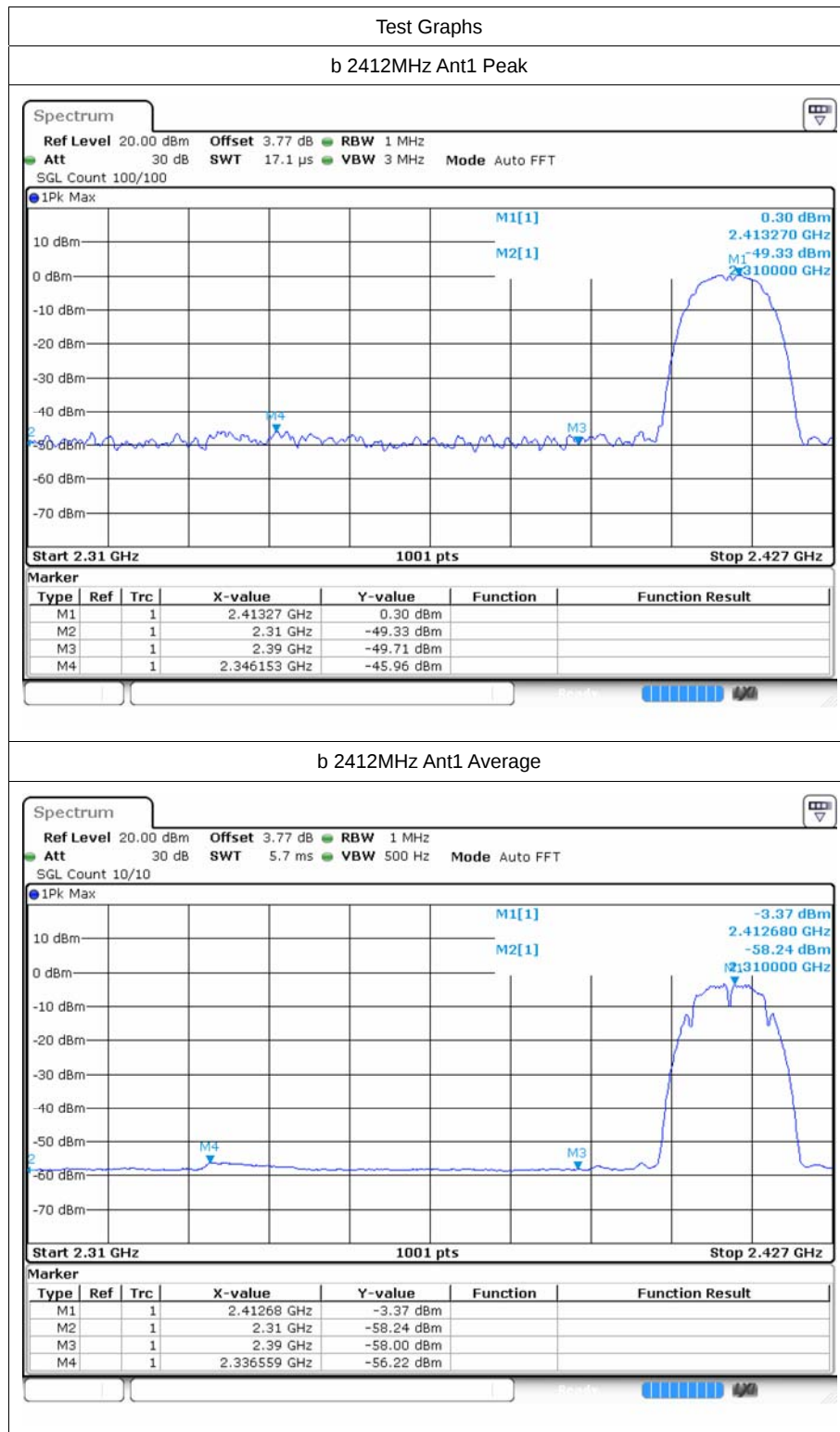
7.1 Test Result

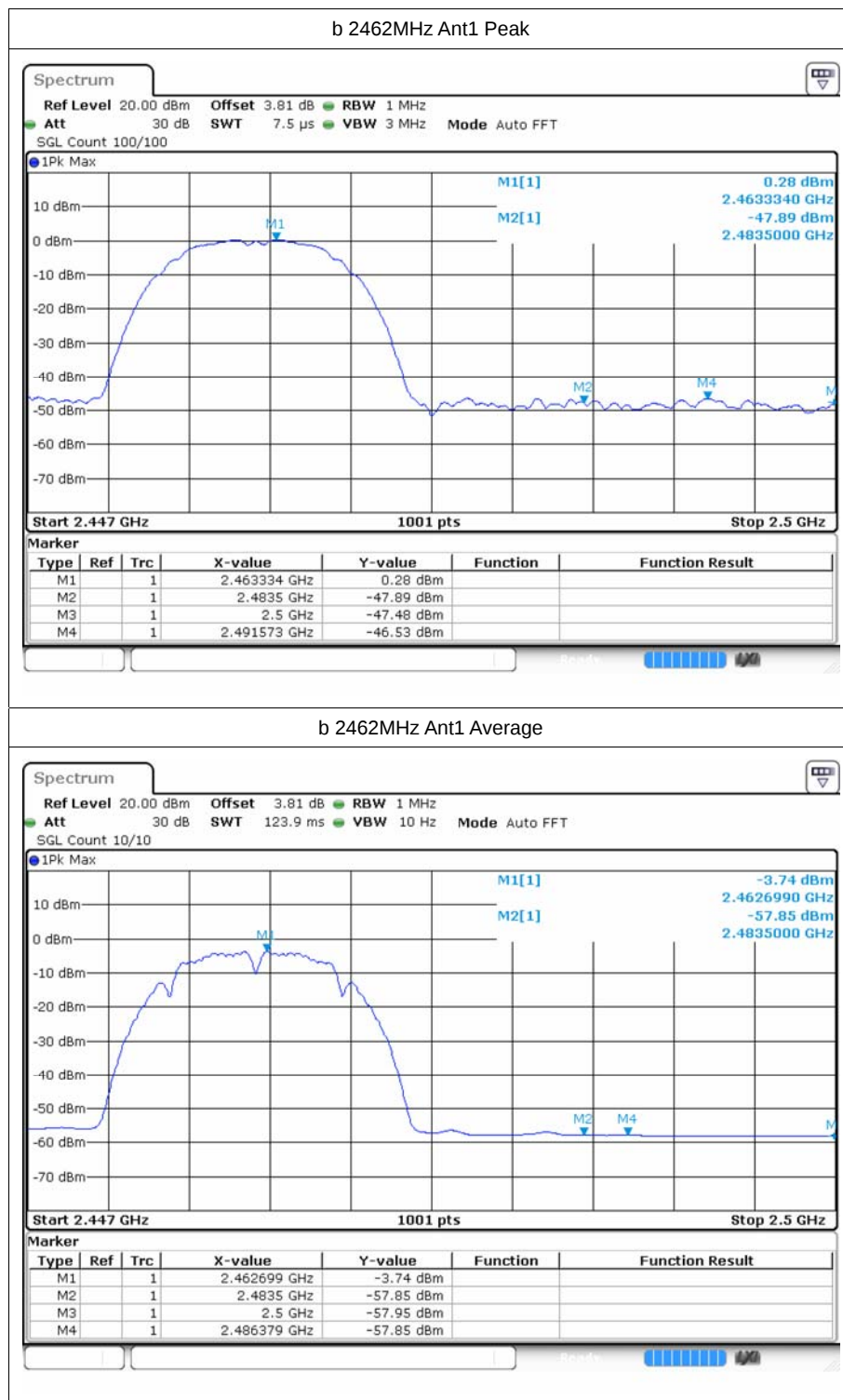
Mod e	Frequency (MHz)	Antenn a	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detecto r	Limit (dBuV/m)	Verdic t
b	2412	Ant1	2310	-49.32	2	47.94	Peak	74	Pass
b	2412	Ant1	2310	-58.24	2	39.02	Average	54	Pass
b	2412	Ant1	2346.153	-45.96	2	51.3	Peak	74	Pass
b	2412	Ant1	2336.559	-56.21	2	41.05	Average	54	Pass
b	2412	Ant1	2390	-49.7	2	47.56	Peak	74	Pass
b	2412	Ant1	2390	-57.99	2	39.27	Average	54	Pass
b	2462	Ant1	2483.5	-47.88	2	49.38	Peak	74	49.38
b	2462	Ant1	2483.5	-57.85	2	39.41	Average	54	Pass
b	2462	Ant1	2491.573	-46.52	2	50.74	Peak	74	Pass
b	2462	Ant1	2486.379	-57.84	2	39.42	Average	54	Pass
b	2462	Ant1	2500	-47.47	2	49.79	Peak	74	Pass
b	2462	Ant1	2500	-57.94	2	39.32	Average	54	Pass
g	2412	Ant1	2310	-49.79	2	47.47	Peak	74	Pass
g	2412	Ant1	2310	-56.94	2	40.32	Average	54	Pass
g	2412	Ant1	2345.451	-45.87	2	51.39	Peak	74	Pass
g	2412	Ant1	2340.42	-54.51	2	42.75	Average	54	Pass
g	2412	Ant1	2390	-50.16	2	47.56	Peak	74	Pass
g	2412	Ant1	2390	-57.32	2	39.94	Average	54	Pass
g	2462	Ant1	2483.5	-46.59	2	50.67	Peak	74	Pass
g	2462	Ant1	2483.5	-56.91	2	40.35	Average	54	Pass
g	2462	Ant1	2491.573	-46.14	2	51.12	Peak	74	Pass
g	2462	Ant1	2498.569	-56.01	2	41.25	Average	54	Pass
g	2462	Ant1	2500	-49.59	2	49.79	Peak	74	Pass
g	2462	Ant1	2500	-56.59	2	40.67	Average	54	Pass
n20	2412	Ant1	2310	-49.01	2	48.25	Peak	74	Pass
n20	2412	Ant1	2310	-56.42	2	40.84	Average	54	Pass
n20	2412	Ant1	2336.91	-45.03	2	52.23	Peak	74	Pass
n20	2412	Ant1	2339.016	-54.57	2	42.69	Average	54	Pass
n20	2412	Ant1	2390	-47.88	2	49.38	Peak	74	Pass
n20	2412	Ant1	2390	-56.94	2	40.32	Average	54	Pass
n20	2462	Ant1	2483.5	-49.39	2	47.87	Peak	74	Pass
n20	2462	Ant1	2483.5	-56.67	2	40.59	Average	54	Pass
n20	2462	Ant1	2485.213	-46.23	2	51.03	Peak	74	Pass
n20	2462	Ant1	2490.513	-55.52	2	41.74	Average	54	Pass

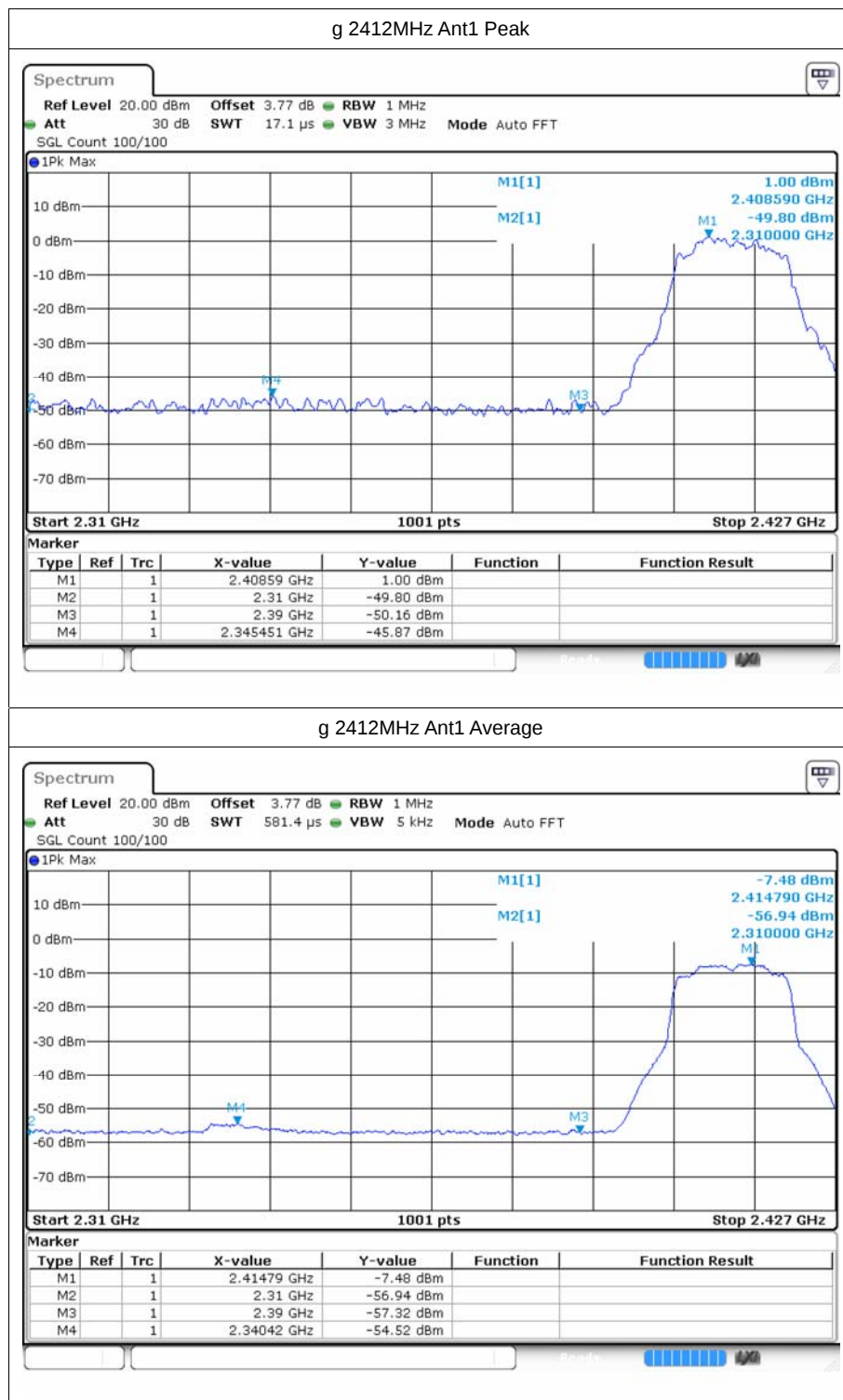


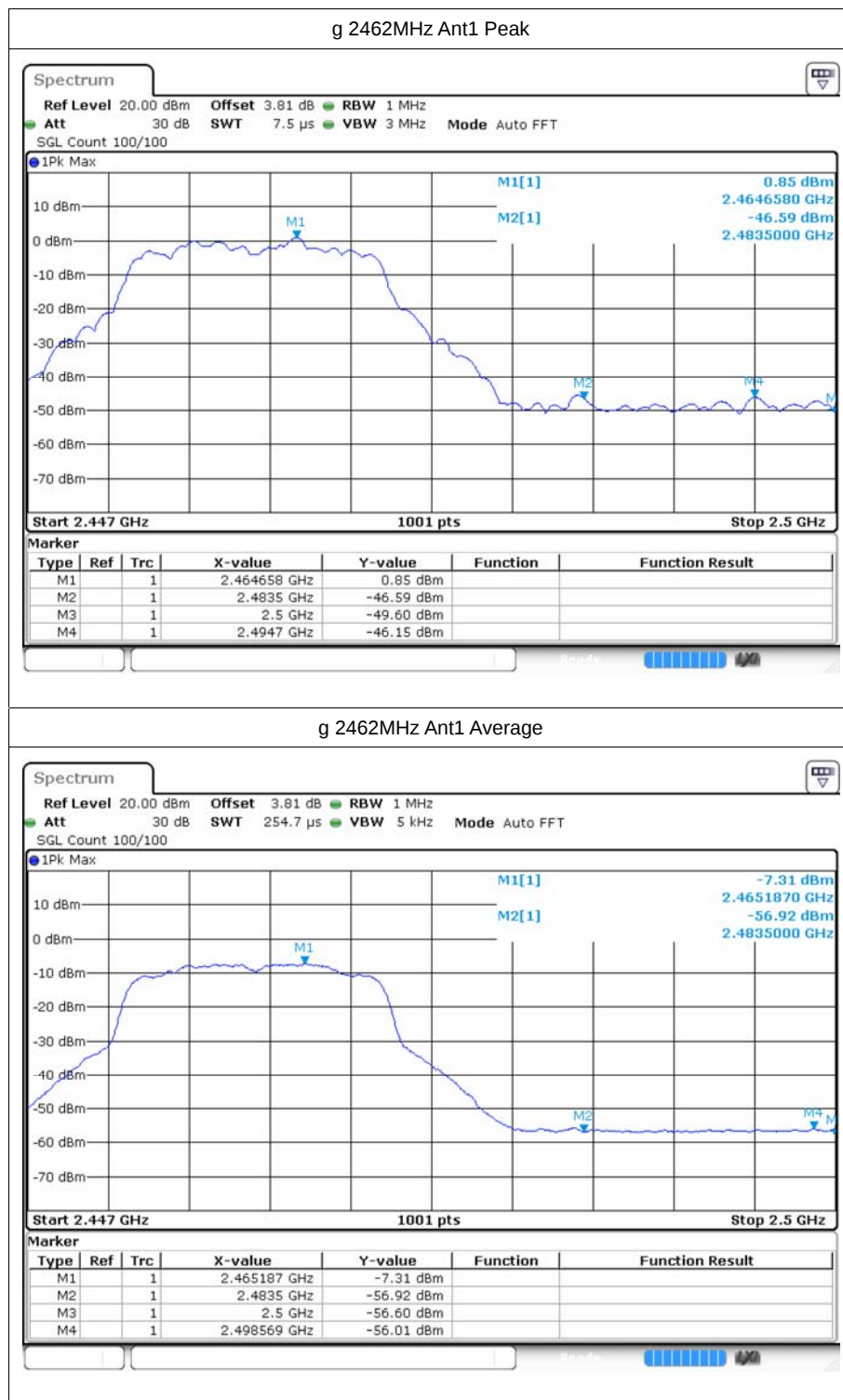
n20	2462	Ant1	2500	-49.63	2	47.63	Peak	74	Pass
n20	2462	Ant1	2500	-56.21	2	41.05	Average	54	Pass

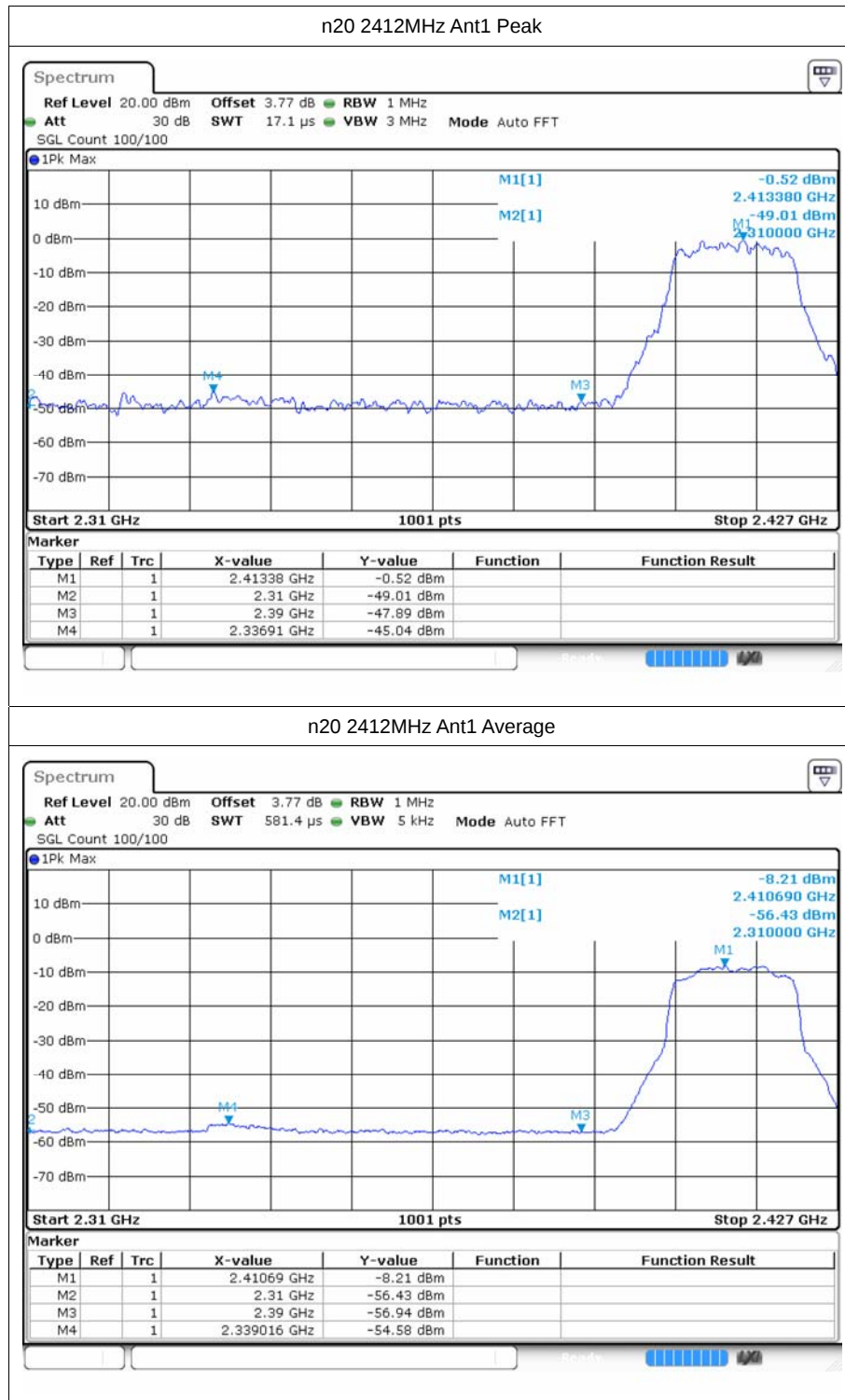
7.2 Test Graphs













---The End---